Environment Canada Environnement Canada

Historical Streamflow Summary

Manitoba

Sommaire chronologique de l'écoulement

TO/JUSQU'À **1988**

INLAND WATERS DIRECTORATE
WATER RESOURCES BRANCH
WATER SURVEY OF CANADA
OTTAWA, CANADA, 1989

DIRECTION GÉNÉRALE DES EAUX INTÉRIEURES
DIRECTION DES RESSOURCES EN EAU
DIVISION DES RELEVÉS HYDROLOGIQUES DU CANADA
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PREFACE

This publication was prepared by personnel of the Water Survey of Canada Division under the direction of the Director, Water Resources Branch, Department of the Environment, Ottawa.

The basic data were collected and compiled under the supervision of the Regional Chief of the Water Resources Branch at Winnipeg, Manitoba.

The co-operation received from provincial agencies and from other organizations is gratefully acknowledged.

PRÉFACE

La Division des relevés hydrologiques du Canada, sous l'autorité du Directeur des ressources en eau du ministère de l'Environnement (Ottawa), a préparé la présente publication.

On a recueilli et compilé les données de base sous la supervision du Chef régional de la Direction des ressources en eau, à Winnipeg (Manitoba).

On remercie vivement les organismes provinciaux, ou autres, pour la coopération qu'ils ont apportée.

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INTRODUCTION

The Water Resources Branch of the Department of the Environment herein presents a summary of monthly and annual mean discharges and annual extremes of discharge for rivers in Manitoba for which streamflow data to 1988 inclusive have been collected by the Water Survey of Canada. This edition supersedes all previous editions.

A program for the collection and publication of Surface Water Data has been carried on across Canada for over 75 years. The results of these hydrometric survey investigations have been published annually.

Discharge data are available on punched cards or magnetic tape for computer processing. These data and details on individual stations and related records, as well as recent data which have not yet been published may be obtained upon application to:

Regional Chief,
Water Resources Branch,
Department of the Environment,
521 Federal Building,
269 Main Street,
Winnipeg, Manitoba.
R3C 1B2
(204 949-2434)

or to the Water Resources Branch, Department of the Environment, Ottawa, Ontario, K1A 0H3 (819 997-2098).

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INTRODUCTION

La Direction des ressources en eau du ministère de l'Environnement présente un sommaire des moyennes mensuelles et annuelles de l'écoulement et des extrêmes annuels de cours d'eau du Manitoba, pour lesquels la Division des relevés hydrologiques du Canada a obtenu des données jusqu'en 1988 inclusivement. La présente publication annule toutes les éditions antérieures.

La cueillette et la publication de données sur les eaux de surface sont en oeuvre depuis plus de 75 années au Canada. Les données obtenues à partir des relevés hydrométriques sont publiées annuellement.

On peut se procurer les données sur l'écoulement sous forme de cartes perforées ou de rubans magnétiques pour traitement sur ordinateur. En s'adressant aux endroits ci-après, on peut obtenir ces données, des renseignements supplémentaires sur certaines stations particulières et divers relevés ainsi que des données récentes non encore publiées:

Chef régional
Direction des ressources en eau
Ministère de l'Environnement
521 Édifice fédéral
269, rue Main
Winnipeg (Manitoba)
R3C 1B2
(204 949-2434)

ou au Direction des ressources en eau, ministère de l'Environnement, Ottawa (Ontario), K1A 0H3 (819 997-2098).

ORGANIZATION AND HISTORY OF HYDROMETRIC SURVEY OPERATIONS

Hydrometric surveys in Manitoba were conducted by the Water Survey of Canada under agreement with the Province of Manitoba. The provincial authorities contributed to the cost of the basic field investigations which were carried out in accordance with mutually agreed-upon plans.

Stream-gauging work started in Manitoba when the Winnipeg River Power Survey was commenced in 1911 by the Dominion Water Power Branch. The Manitoba Hydrographic Survey was organized in early 1912 and the survey was expanded to embrace all Manitoba and the Lake of the Woods in Ontario. Following the transfer of the natural resources of Manitoba to provincial control as of October 1, 1930, a co-operative agreement was arranged with the Government of Manitoba for the continuance of the hydrometric survey by the federal government. Although this agreement was terminated in 1933, work was continued by the federal government under letter arrangement until 1975. A co-operative agreement was signed with the Government of Manitoba on February 18, 1975 and implemented on April 1, 1975. The agreement provides that water quantity surveys will be continued by the federal government on a shared cost basis.

ORGANISATION ET HISTORIQUE DES RELEVÉS HYDROMÉTRIQUES

La Division des relevés hydrologiques du Canada a effectué des relevés hydrométriques au Manitoba en vertu de l'accord conclu avec les autorités provinciales, qui ont contribué au coût des recherches de base réalisées sur le terrain, après entente mutuelle sur leur programme.

C'est en 1911, lorsque la Direction fédérale de l'énergie hydraulique a fondé le *Winnipeg River Power Survey*, que cet organisme a effectué les premières observations relatives aux cours d'eau au Manitoba. Avec la création du *Manitoba Hydrographic Survey* au début de 1912, le champ des relevés s'est élargi pour englober tout le Manitoba et le lac des Bois en Ontario. Après que la responsabilité des ressources naturelles du Manitoba est passée au gouvernement provincial, le 1er octobre 1930, le Manitoba et le gouvernement fédéral ont conclu un accord qui permettait à ce dernier de poursuivre les relevés hydrométriques. L'accord a pris fin en 1933, mais en vertu d'une lettre d'entente, le gouvernement fédéral a continué d'exécuter les observations hydrométriques jusqu'en 1975. Le 18 février 1975, le gouvernement du Manitoba a signé un nouvel accord, qui est entré en vigueur le 1er avril 1975, renfermant des dispositions grâce auxquelles le gouvernement fédéral s'occupera du programme de relevés hydrométriques et partagera le coût des mesures avec la province.

CO–OPERATION AND ACKNOWLEDGMENTS

Co-operative undertakings with other agencies form an important part of the activities of the Water Survey of Canada. Close co-operation has been maintained with public agencies and private organizations concerned with water resources. Runoff and other data have been mutually exchanged and stream-gauging operations have been facilitated by the assistance received from a number of organizations.

On waters adjacent to the International Boundary, certain gauging stations are maintained by Canada (or the United States) under agreement with the United States (or Canada) and the records are collected and compiled in a manner equally acceptable to both countries. These stations are designated as "International Gauging Stations" in this publication.

For the valuable assistance and co-operation received in obtaining hydrometric survey records, the Water Survey of Canada is indebted to many organizations.

The names of these organizations are given in the Surface Water Data Reference Index and the annual Surface Water Data publications. The names of agencies who have contributed data for publication are identified herein under individual stations.

COOPÉRATION ET REMERCIEMENTS

Le travail entrepris en coopération avec d'autres organismes représente une partie importante des activités de la Division des relevés hydrologiques du Canada. On a maintenu une étroite collaboration avec les organismes, publics ou privés, qui s'intéressent aux ressources en eau. On a échangé des données portant sur l'écoulement ou sur d'autres points, et l'assistance fournie par beaucoup d'organismes a facilité les opérations de jaugeage.

Pour ce qui est des eaux adjacentes à la frontière internationale, certaines stations de jaugeage dépendent du Canada (ou des États-Unis) suite à un accord avec les États-Unis (ou le Canada), et les relevés sont faits et compilés de façon à satisfaire les deux pays. Ces stations sont nommées «Stations internationales de jaugeage».

La Division des relevés hydrologiques du Canada est redevable à maints organismes de l'aide et de la collaboration précieuses qu'ils lui ont apportées lors de la prise des relevés hydrométriques.

On trouvera les noms des organismes dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Les noms des organismes qui ont fourni des données apparaissent dans la présente publication sous les stations particulières.

EQUIVALENTS OF MEASURE

The following list of convenient equivalents of measure includes the relationship between imperial units and the International System of Units (SI).

1 inch equals 2.54 cm (centimetres)
1 foot equals 0.3048 m (metre)
1 statute mile equals 1.6093 km (kilometres)

1 cm (centimetre) equals 0.393 70 inch
1 m (metre) equals 3.2808 feet
1 km (kilometre) equals 0.621 37 mile

1 acre equals 43 560 square feet
1 acre equals 0.404 69 ha (hectare)
1 square mile equals 640 acres
1 square mile equals 2.5900 km^2 (square kilometres)
1 square mile equals 259.0 ha (hectares)

1 ha (hectare) equals 10 000 m^2 (square metres)
1 ha (hectare) equals 2.4710 acres
1 km^2 (square kilometre) equals 0.386 10 square mile

1 cubic foot equals 6.2288 imperial gallons
1 imperial gallon equals 4.546 09 L (litres)
1 imperial gallon equals 1.2010 U.S. gallons
1 U.S. gallon equals 0.133 68 cubic foot
1 cubic foot equals 0.028 317 m^3 (cubic metre)
1 m^3 (cubic metre) equals 35.315 cubic feet
1 dam^3 (cubic decametre) equals 1000 m^3 (cubic metres)
1 dam^3 (cubic decametre) equals 1 mm (millimetre) over 1 km^2 (square kilometre)

1 cubic foot per second for one day equals 1.9835 acre-feet
1 cubic foot per second for one day covers one square mile to a depth of 0.037 19 inch
1 acre-foot equals 1.2335 dam^3 (cubic decametres)
1 m^3/s (cubic metre per second) for one day equals 86.4 dam^3 (cubic decametre)
1 m^3/s (cubic metre per second) for one day covers one square kilometre to a depth of 0.0864 m (metre)

1 foot per second equals 0.6818 mile per hour
1 mile per hour equals 1.467 feet per second
1 m/s (metre per second) equals 3.6 km/h (kilometre per hour)
1 km/h (kilometre per hour) equals 0.2778 m/s (metre per second)

1 cubic foot per second equals 0.028 317 m^3/s (cubic metre per second)
1 m^3/s (cubic metre per second) equals 35.315 cubic feet per second

1 pound equals 0.453 59 kg (kilogram)
1 kg (kilogram) equals 2.2046 pounds

1 short ton (2000 pounds) equals 0.907 18 t (tonne)
1 t (tonne) equals 2204.6 pounds

degrees Celsius = 5/9 (degrees Fahrenheit – 32)
degrees Fahrenheit = 9/5 (degrees Celsius) + 32

ÉQUIVALENCES DES UNITÉS DE MESURE

Voici une liste des unités de mesure impériales et leurs équivalences dans le Système international d'unités (SI).

1 pouce vaut 2.54 cm (centimètres)
1 pied vaut 0.3048 m (mètre)
1 mille terrestre équivaut à 1.6093 km (kilomètre)

1 cm (centimètre) équivaut à 0.393 70 pouce
1 m (mètre) équivaut à 3.2808 pieds
1 km (kilomètre) équivaut à 0.621 37 mille

1 acre vaut 43 560 pieds carrés
1 acre équivaut à 0.404 69 ha (hectare)
1 mille carré vaut 640 acres
1 mille carré équivaut à 2.5900 km^2 (kilomètres carrés)
1 mille carré équivaut à 259.0 ha (hectare)

1 ha (hectare) vaut 10 000 m^2 (mètres carrés)
1 ha (hectare) équivaut à 2.4710 acres
1 km^2 (kilomètre carré) équivaut à 0.386 10 mille carré

1 pied cube équivaut à 6.2288 gallons impérials
1 gallon impérial vaut 4.546 09 L (litres)
1 gallon impérial équivaut à 1.2010 gallon américain
1 gallon américain équivaut à 0.133 68 pied cube
1 pied cube vaut 0.028 317 m^3 (mètre cube)
1 m^3 (mètre cube) vaut 35.315 pieds cubes
1 dam^3 (décamètre cube) vaut 1000 m^3 (mètres cubes)
1 dam^3 (décamètre cube) vaut 1 mm (millimètre) qui couvre 1 km^2 (kilomètre carré)

1 pied cube par seconde pendant un jour équivaut à 1.9835 acre-pied
1 pied cube par seconde pendant un jour équivaut à un volume d'un mille carré par 0.037 19 pouce
1 acre-pied équivaut à 1.2335 dam^3 (décamètres cubes)
1 m^3/s (mètre cube par seconde) pour un jour vaut 86.4 dam^3 (décamètre cube)
1 m^3/s (mètre cube par seconde) pour un jour couvre un kilomètre carré à une profondeur de 0.0864 m (mètre)

1 pied par seconde équivaut à 0.6818 mille par heure
1 mille par heure équivaut à 1.467 pied par seconde
1 m/s (mètre par seconde) vaut 3.6 km/h (kilomètre par heure)
1 km/h (kilomètre par heure) vaut 0.2778 m/s (mètre par seconde)

1 pied cube par seconde équivaut à 0.028 317 m^3/s (mètre cube par seconde)
1 m^3/s (mètre cube par seconde) équivaut à 35.315 pieds cubes par seconde

1 livre équivaut à 0.453 59 kg (kilogramme)
1 kg (kilogramme) équivaut à 2.2046 livres

1 tonne courte (2000 livres) équivaut à 0.907 18 t (tonne)
1 t (tonne) équivaut à 2204.6 livres

degrés Celsius = 5/9 (degrés Fahrenheit – 32)
degrés Fahrenheit = 9/5 (degrés Celsius) + 32

DEFINITION OF TERMS AND ABBREVIATIONS

"Control" is the condition downstream from a gauging station that determines the stage-discharge relationship. It may be a stretch of rapids, a weir or other artificial structure. In the absence of such features, the control may be a less obvious condition such as a convergence of the channel or even simply the resistance to flow through a downstream reach. A shifting control exists where the stage-discharge relationship tends to change because of impermanent bed or banks.

"Cubic metres per second" (m^3/s) is a unit expressing rate of discharge. One cubic metre per second is equal to one cubic metre of water flowing past a particular point in one second. This is the basic unit in general use, other units being computed from it by the use of factors as given in the previous paragraph under "Equivalents of Measure".

"Gauging station" is a location where systematic records of stage or stage and discharge are obtained.

"Miscellaneous (or related) data" is all data not published in the regular series of hydrometric and sediment data publications such as unpublished water levels and the various parameters that are measured in obtaining discharge measurements, e.g. water depth, velocity, width, air and water temperatures, ice thickness. This also includes discharge measurements and water level and sediment observations obtained at locations which are not regular gauging stations. Various types of "derived" data could also be considered "miscellaneous", such as water levels and discharges at selected time intervals (usually hourly).

"Stage-discharge relationship" is the relation between the water level and the discharge at a gauging station.

PUBLICATION OF SURFACE WATER AND SEDIMENT DATA

Surface Water Data have been published in a variety of formats in imperial units since 1908 in approximately 300 publications which are now mostly out-of-print. Commencing with the 1979 publications, data are presented in the International System of Units (SI). However, the format has remained the same wherein Canada is divided into eight regions. The provinces each represent a separate region except for New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province(s) or territories covered and the year in which data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically, with two years of data per page.

The first edition of a *Surface Water Data Reference Index* was published for data to 1966 by province or region. Subsequent editions were published annually or biennially in one publication for Canada. Commencing with the 1979 publication, data are

DÉFINITIONS DES TERMES ET ABRÉVIATIONS

«Élément régulateur» – élément qui conditionne l'écoulement en aval d'une station de jaugeage et qui détermine la relation hauteur-débit au niveau de la station. Ce peut être une série de rapides, un déversoir ou toute autre structure artificielle. En l'absence de ces structures, l'élément régulateur peut provenir d'une condition moins apparente comme le rétrécissement d'un chenal ou simplement la résistance à l'écoulement d'un tronçon situé en aval. Il y a élément régulateur changeant quand la relation hauteur-débit tend à être modifiée par un lit ou des rives instables.

«Mètres cubes par seconde» (m^3/s) – unité du taux d'écoulement. Un mètre cube par seconde équivaut à un mètre cube d'eau s'écoulant en un point donné en une seconde. C'est l'unité de base généralement employée, les autres unités dérivées à partir de celle-ci sont données sous la rubrique «Équivalences des unités de mesure».

«Station de jaugeage» – lieu où l'on effectue des relevés systématiques de la hauteur ou de la hauteur et du débit de l'eau.

«Les données diverses (ou connexes)» – représentent toutes les données qui ne sont pas publiées dans les séries régulières des publications sur les données hydrométriques et les sédiments, par exemple celles des niveaux des eaux et des autres paramètres qui sont mesurés en même temps que le débit, soit la profondeur de l'eau, sa vitesse, son étendue, la température de l'eau et de l'air, l'épaisseur de la glace. Les mesures de débit ainsi que les observations sur les niveaux des eaux et les sédiments, obtenues à des emplacements autres que les stations régulières de jaugeage, sont aussi incluses. D'autres types de données «dérivées» pourraient aussi être classées dans cette catégorie de données «diverses», à savoir les niveaux des eaux et les débits observés à des intervalles de temps précis (en général, toutes les heures).

«Relation hauteur-débit» – relation qui existe entre la hauteur et le débit au niveau d'une station de jaugeage.

PUBLICATION DES DONNÉES SUR LES EAUX DE SURFACE ET LES SÉDIMENTS

Depuis 1908, les *Données sur les eaux de surface* ont été publiées, en utilisant diverses formules et en ayant recours au système d'unités impériales, dans quelque 300 publications lesquelles sont pour la plupart épuisées. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Toutefois, la présentation est toujours la même, c'est-à-dire que le Canada est divisé en huit régions. Chaque province représente une région distincte sauf le Nouveau-Brunswick, la Terre-Neuve, la Nouvelle-Écosse et l'Île du Prince-Édouard qui constituent la région des provinces de l'Atlantique, comme c'est le cas aussi pour le Yukon et les Territoires du Nord-Ouest qui sont réunis en une seule région. Les publications sont identifiées par le nom des provinces ou territoires concernés et par l'année de la cueillette des données. Les données sont publiées annuellement, en fonction de l'année civile, et les stations sont classées par ordre alphabétique, chaque page de données couvrant deux années.

La première édition de l'*Index de référence des données sur les eaux de surface* comprenait les données disponibles jusqu'en 1966, de chaque province ou région. Les éditions subséquentes étaient publiées annuellement ou tous les deux ans en une seule publication

presented in the International System of Units (SI) and published every two years. Gauging stations are listed by province or territory, in upstream to downstream order. Coloured maps showing the locations of both active and discontinued stations were included in the first and second editions and were provided in a separate Hydrometric Map Supplement to the 1972 and the 1977 editions. The latest editions of the Reference Index and the Hydrometric Map Supplement supersede all previous editions.

The first edition of a publication series titled *Historical Streamflow Summary* was produced for data to 1970. Subsequent editions have been published every three years. This publication series contains a summary of historical monthly and annual mean discharges and annual extremes for the entire period of record for all stations where streamflow data have been collected during the history of the Water Survey of Canada. Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1982 will be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a publication series titled *Historical Water Levels Summary* was produced for data to 1976. This publication series contains a summary of historical monthly and annual mean water levels and annual extremes for the period of record for all stations on lakes or reservoirs where water level data have been collected during the history of the Water Survey of Canada. It also contains a summary of water level data for all stations on rivers where "water levels only" were collected or for certain stations on rivers where streamflow data are collected, but the historical water level information is considered to be of sufficient demand to warrant inclusion in the publication (daily water levels for stations where streamflow data are collected are not normally published in the annual Surface Water Data publications). Data are published by province or region, as for the annual Surface Water Data publications. Commencing with the 1979 publications, data are presented in the International System of Units (SI). Editions subsequent to 1983 will be published every two years. The latest edition supersedes all previous editions, since it contains any corrections or additions since the last publication.

During the years 1948 to 1960, some sediment data were collected for several Prairie rivers to meet the needs of particular projects. The first Paper containing sediment data incorporates a selection of these data and also data for part of the year ending September 30, 1961, at stations established for the continuing program. The second issue is a biennial publication covering only the continuing program for the 1962 and 1963 water years. All subsequent editions titled *Sediment Data Canadian Rivers* were published annually. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI).

Commencing with 1984, the *Sediment Data* are presented and published in a new format wherein Canada is divided into eight regions. The provinces each represent a separate region except for

pour tout le Canada. À partir de 1979, les données sont fournies dans le Système international d'unités (SI) et les éditions subséquentes vont paraître tous les deux ans. Les stations de jaugeage sont présentées par province ou territoire et placées dans l'ordre de leur position, d'amont en aval. Des cartes en couleurs, qui indiquent l'emplacement des stations hydrométriques en service, y compris celles qui ne le sont plus, ont paru dans les première et deuxième éditions ainsi que dans le *Supplément de cartes hydrométriques* de 1972 et de 1977. L'édition la plus récente de l'*Index de référence* et celle du *Supplément de cartes hydrométriques* annulent les éditions antérieures.

La première édition d'une série de publications intitulée *Sommaire chronologique de l'écoulement* renfermait les données disponibles jusqu'en 1970. Les éditions subséquentes étaient publiées tous les trois ans. Cette série de publications renferme un résumé des moyennes mensuelles et annuelles des débits ainsi que les débits extrêmes annuels pour toute la période d'enregistrement et pour toutes les stations où des données de débit sont recueillies par la Division des relevés hydrologiques du Canada. Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1982 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une série de publications intitulée *Sommaire chronologique des niveaux d'eau* comprenait les données disponibles jusqu'en 1976. Cette série de publications contient un résumé des niveaux moyens mensuels et annuels ainsi que des niveaux extrêmes annuels pour la période d'enregistrement pour toutes les stations de lacs ou de réservoirs où des données sur les niveaux d'eau sont recueillies par la Division des relevés hydrologiques du Canada. Elle renferme également un résumé des niveaux d'eau pour toutes les stations de rivières effectuant «uniquement» des relevés de niveaux d'eau ou pour certaines stations de rivières où des données de débit sont recueillies de même que des données sur les niveaux d'eau qui peuvent répondre aux besoins des utilisateurs (en général, les niveaux d'eau quotidiens de stations effectuant des relevés de débit ne sont pas publiées dans les publications annuelles des données sur les eaux de surface). Les données sont publiées par province ou région, comme c'est le cas pour les publications annuelles des données sur les eaux de surface. À partir de 1979, les données sont fournies dans le Système international d'unités (SI). Les éditions subséquentes à 1983 vont paraître tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

De 1948 à 1960, on avait recueilli des données pour plusieurs cours d'eau des Prairies en prévision de la réalisation de certains projets. La première publication contenait un choix de ces données ainsi que d'autres, recueillies en 1961 avant le 30 septembre par des stations établies pour la réalisation du programme permanent. La deuxième publication portait sur les données recueillies dans le cadre du programme, au cours des années hydrologiques 1962 et 1963. Toutes les éditions subséquentes intitulées *Données sur les sédiments de rivières canadiennes* étaient publiées annuellement. À partir de 1978, les données sont fournies dans le Système international d'unités (SI).

En 1984, la présentation des données a été modifiée. Le Canada a été divisé en huit régions, une région pour chaque province, sauf le Nouveau-Brunswick, Terre-Neuve, la Nouvelle-Écosse et

New Brunswick, Newfoundland, Nova Scotia and Prince Edward Island, which together form the Atlantic Provinces region, and the Yukon and Northwest Territories which make up another. The publications are identified by the province or territories covered and the year in which the data were collected. These data are published annually on a calendar-year basis and the stations are listed alphabetically.

The first edition of a *Sediment Data Reference Index* was published for data to 1972. It contains a tabulation of locations where sediment data in Canada were collected by the Water Survey of Canada. The index has been subdivided alphabetically by province or territory, with sediment survey stations listed alphabetically. Commencing with the 1978 publication, data are presented in the International System of Units (SI) and will continue to be published every two years. The latest edition supersedes all previous editions since it contains any corrections or additions since the last publication.

The first edition of a new publication series titled *Historical Sediment Data Summary for Canadian Rivers* was produced for data to 1974. This publication contains a summary of historical monthly and annual mean suspended sediment load, and annual extremes of daily suspended sediment concentration and loads and total annual suspended load. Commencing with the 1978 publication, data are presented entirely in the International System of Units (SI). This publication has been discontinued, as much of the information is now included in the new annual *Sediment Data* publication.

l'Île-du-Prince-Édouard qui, ensemble, forment la région des provinces de l'Atlantique, et les Territoires du Yukon et du Nord-Ouest, qui forment une autre région. Les publications sont nommées selon la région couverte et l'année des données (année civile). Ces publications sont annuelles. Les stations y sont présentées par ordre alphabétique.

La première édition de l'*Index de référence des données sur les sédiments* renfermait les données disponibles jusqu'en 1972. Elle comprenait une mise en tableaux des emplacements où des données sur les sédiments sont recueillies au Canada par la Division des relevés hydrologiques. L'Index est subdivisé alphabétiquement par province ou territoire et les stations de relevés des sédiments sont classées en ordre alphabétique. À partir de 1978, les données sont fournies dans le Système international d'unités (SI) et sont publiées tous les deux ans. L'édition la plus récente annule toutes les éditions antérieures, car elle renferme toutes les corrections et mises à jour depuis la dernière parution.

La première édition d'une nouvelle série de publications intitulée *Sommaire chronologique des données sur les sédiments de rivières canadiennes* renfermait les données disponibles jusqu'en 1974. Cette série présente un résumé des moyennes mensuelles et annuelles de la charge de sédiments en suspension, des extrêmes annuels de la concentration quotidienne et de la charge quotidienne des sédiments en suspension, ainsi que de la charge totale annuelle des sédiments en suspension. À partir de 1978, les données sont fournies dans le Système international d'unités (SI). Cette série a été abandonnée, car une bonne partie de l'information est maintenant contenue dans la nouvelle publication annuelle intitulée *Données sur les sédiments*.

EXPLANATION OF HISTORICAL STREAMFLOW SUMMARY PUBLICATION

A. General Description

Descriptive information about a gauging station is given herein below the table of monthly and annual mean discharges. This refers to such items as latitude and longitude, drainage area and whether the flow is natural or regulated (the year that regulation began is given, if known); International Gauging Stations are identified and the names of co-operating agencies who supply data are given; unusual conditions are explained under "Remarks".

This descriptive information (except the "Remarks" statement) is also given in the Surface Water Data Reference Index and the annual Surface Water Data publications. However, these two publications contain additional information not given herein such as the type of gauge, period of record and other pertinent remarks. Historical streamflow data as contained herein are published by province or region and also in alphabetical order as in the annual Surface Water Data publications. However, the Historical Streamflow Summary publications contain data for both active and discontinued streamflow stations and do not contain any water level data. These publications will be published every two years and will contain data for all streamflow stations for the entire period of record not just the data for the intervening two years.

EXPLICATION DU *SOMMAIRE CHRONOLOGIQUE DE L'ÉCOULEMENT*

A. Description générale

Sous ce titre on trouve les renseignements descriptifs pour une station de relevés de l'écoulement, qui sont fournis après l'extrait des moyennes mensuelles et annuelles. Il s'agit de la latitude et de la longitude; de la superficie du bassin versant, du débit reconnu comme naturel ou régularisé (on indique l'année où la régularisation a débuté, si elle est connue); des stations internationales de jaugeage et des noms des organismes ayant fourni des données ainsi que des précisions sur les conditions spéciales qui prévalaient à la station (elles figurent dans les «Remarques»).

On trouvera également ces renseignements descriptifs (sauf les «Remarques») dans l'*Index de référence des données sur les eaux de surface* et dans les publications annuelles des *Données sur les eaux de surface*. Cependant, ces dernières traitent d'information additionnelles telles que du type de jauge, de la période d'enregistrement et d'autres remarques pertinentes. Les données historiques sur l'écoulement, qui sont contenues dans la présente publication, sont subdivisées en ordre alphabétique selon les provinces ou les territoires comme pour les publications annuelles des *Données sur les eaux de surface*. Par contre, le *Sommaire chronologique de l'écoulement* contient des données non seulement de stations en opération, mais aussi de stations qui ne le sont plus; aucune donnée sur le niveau des eaux n'est toutefois fournie. Cette publication paraîtra tous les deux ans et portera sur les données de toutes les stations de relevés de l'écoulement pour toute la période d'enregistrement plutôt que sur les données qui ne couvrent que les deux années.

B. Method of Tabulation of Data

For gauging stations where systematic streamflow data have been obtained, the following are given for the period of record to 1988 inclusive:

1. Summary of monthly and annual mean discharges;
2. Annual maximum instantaneous discharges;
3. Annual maximum and minimum daily discharges;
4. Identification of the extreme recorded for the period of record;
5. Annual total discharge in cubic decametres.

The following standard symbols are used opposite the daily discharge to which they apply. These symbols will not appear opposite the monthly and annual mean discharges, but will appear with the annual maximum instantaneous value and the annual maximum and minimum daily values, if applicable:

A – Manual Gauge – indicates that one or more manual gauge observations per day were obtained and used as the mean for the day for a gauging station equipped with a recording gauge during that particular year. A station may have several periods of recording or manual gauges throughout its history. For more details concerning the type of gauge operated during the period of record, the *Surface Water Data Reference Index* should be consulted. This symbol is used during open-water periods only.

B – Ice Conditions – indicates that for a gauging station where discharge data are obtained the presence of ice has affected the stage-discharge relationship.

E – Estimated – indicates any estimated data. It indicates that the value was determined by some indirect method such as interpolation, extrapolation, estimation from a graph of observed readings, comparison with other streams or by comparison with meteorological data.

R – Revised – indicates that a revision, correction or addition has been made to the historical discharge data base after January 1, 1987.

1. *The summary of monthly and annual mean discharge* gives:

   (a) the monthly mean in cubic metres per second for each month for which there is a complete month of daily discharges. Records of daily discharges for partial months, if obtained, are published in annual publications or are available from the Regional Chief;

   (b) the annual mean discharge in cubic metres per second if there are daily discharges for the complete year. In some cases a mean discharge is computed for a standard period within the year, say March to October. This is then computed for all the years for which there are daily discharge records from March to October, if there are also records for other months, say January to October, the mean is given for March to October only;

B. Présentation sous forme de tableaux des données

Pour les stations où on a effectué un relevé systématique de l'écoulement, les données suivantes sont présentées pour la période d'enregistrement allant jusqu'en 1988 inclusivement:

1. Un extrait des moyennes mensuelles et annuelles;
2. Un tableau des valeurs annuelles maximales instantanées;
3. Un tableau des valeurs quotidiennes maximale et minimale annuelles;
4. Un tableau des valeurs extrêmes enregistrées pour toute la période d'observation;
5. Un résumé de l'écoulement annuel total en décamètres cubes.

Les symboles normalisés donnés ci-après sont inscrits à côté des débits quotidiens auxquels ils se rapportent. Les symbols ne sont fournis ni avec les débits moyens mensuels, ni avec les débits moyens annuels, mais ils paraissent avec les valeurs appropriées, c'est-à-dire la valeur instantanée maximale annuelle et les valeurs quotidiennes maximale et minimale annuelles:

A – Jauge manuelle – indique qu'on a effectué à une station de jaugeage dotée d'une jauge enregistreuse au moins une observation par jour à l'aide d'une jauge manuelle et qu'on s'en est servi comme moyenne quotidienne pour l'année en question. Toute station peut comporter diverses périodes où les relevés sont effectués soit à partir d'une jauge enregistreuse, soit à l'aide d'une jauge manuelle. Pour obtenir d'autres renseignements sur le genre de jauge qui a servi lors de la période d'observation, il faut consulter l'*Index de référence des données sur les eaux de surface*. Le symbole n'est employé qu'au cours de périodes d'eau libre.

B – Glaces – indique, pour les données portant sur le débit, que la présence de glaces à la station de jaugeage a faussé la relation hauteur-débit.

E – Estimatives – indique une donnée estimative, c'est-à-dire qu'on a déterminé la valeur de façon indirecte, par exemple par interpolation, extrapolation, à l'aide de graphique, ou par comparaison avec d'autres cours d'eau ou avec des données météorologiques.

R – Révisé – indique qu'il y a eu révision, correction ou addition à la base des données chronologiques des débits après le 1er janvier 1987.

1. *L'extrait des moyennes mensuelles et annuelles* (The summary of monthly and annual mean discharges) donne:

   (a) la moyenne mensuelle, exprimée en mètres cubes par seconde, des valeurs quotidienne de l'écoulement pour le mois entier. Pour les stations où on n'a mesuré l'écoulement quotidien que pour une partie du mois, les données paraissent dans les publications annuelles ou peuvent être obtenues du chef régional;

   (b) la moyenne annuelle, en mètres cubes par seconde, pour les stations où on a obtenu des relevés quotidiens pour une année entière. Dans certains cas, la moyenne est calculée pour une période bien définie de l'année, par exemple pour mars à octobre. On donne donc la moyenne annuelle des relevés quotidiens effectués pour cette même période de l'année. S'il existe des données pour une autre partie de l'année, telle que pour janvier à octobre, la moyenne n'est toujours fournie que pour la période bien définie de mars à octobre;

(c) the mean of all the monthly means;

(d) the mean of all the annual or standard period means.

2. *The annual maximum instantaneous discharge* in cubic metres per second is given for each year if available. This figure is usually available if the station is equipped with a recording gauge. It may also be estimated from high water marks or from a graph of observed water level readings during the day.

3. *The annual maximum and minimum daily discharges* in cubic metres per second are given for each year where daily discharges have been obtained for the entire year (or standard period within the year, e.g. March to October), or where they are considered to be valid for the year even though some daily discharges are missing.

4. *The extreme recorded for the period of record* is identified by an asterisk within the table of annual maximum instantaneous, maximum daily and minimum daily values.

5. *The annual total discharge* in cubic decametres is given for each year where daily discharges have been obtained for the entire year. If a standard period such as March to October has been selected, the figure applies to only those months, similar to the mean discharge in cubic metres per second.

REVISIONS

A number of corrections or revisions have been made to previously published data. Many of these were required because of typographical or computational errors which were exposed when daily discharges were stored on magnetic tape and monthly means were re-calculated by computer. Other errors were discovered or different interpretations of basic data were made during the systematic review of historical streamflow data presently underway, for example, these revisions may have been justified because a more reliable stage-discharge relationship had been developed.

Revisions to daily discharges or daily water levels are not published at present. However, those stations where a systematic review has been conducted are identified in the Surface Water Data Reference Index publication. The Historical Streamflow Summary publications contain revisions to monthly and annual mean discharges, and annual extremes of discharge. The Historical Water Levels Summary publications contain revisions to monthly and annual mean water levels, and annual extremes of water level. Revisions, corrections or additions made to the discharges and water levels after January 1, 1987 are indicated by an "R" symbol in the summary publications. Detailed information on revisions to historical data is available from the appropriate Regional Chief.

(c) la moyenne de toutes les moyennes mensuelles;

(d) la moyenne de toutes les moyennes annuelles ou de toutes les moyennes pour une période bien définie.

2. *Le tableau des valeurs annuelles maximales instantanées* (The annual maximum instantaneous discharge) exprimées en mètres cubes par seconde, est fourni pour toute année où des données sont disponibles. La majorité des stations munies de jauges enregistreuses détiennent ces données. Elles peuvent également être évaluées à partir du niveau des hautes eaux ou d'un graphique illustrant le niveau quotidien.

3. *Le tableau des valeurs quotidiennes minimale et maximale annuelles* (The annual maximum and minimum daily discharges), exprimées en mètres cubes par seconde, donne les valeurs pour les stations où on a fait des relevés quotidiens pour une année entière ou pour une période bien définie de l'année, par exemple pour mars à octobre, ou lorsqu'on considère que les valeurs sont valables pour toute l'année même si quelques débits quotidiens ne sont pas disponibles.

4. *Le tableau des valeurs extrêmes enregistrées pour toute la période d'observation* (The extreme recorded for the period of record) est indiqué par un astérisque et est compris avec les valeurs annuelles maximales instantanées et les valeurs quotidiennes minimale et maximale annuelles.

5. *Le résumé de l'écoulement annuel total* (The annual total discharge), en décamètres cubes, est indiqué pour les stations où on a fait des relevés quotidiens pour une année entière. Si on a choisi une période bien définie de l'année, par exemple de mars à octobre, la valeur n'a trait qu'à ces mois, tout comme la moyenne mensuelle, en mètres cubes par seconde.

RÉVISIONS

On a corrigé ou révisé beaucoup de données déjà publiées. Il a été nécessaire d'effectuer plusieurs corrections, car on a relevé des erreurs typographiques ou de calculs lorsqu'on a enregistré les débits quotidiens sur rubans magnétiques et qu'on a recalculé à l'aide d'ordinateurs les moyennes mensuelles. On a aussi relevé d'autres erreurs ou fait des interprétations différentes de données de base au cours de la révision rétrospective systématique des données de débit qu'on est à faire en ce moment. Ainsi, on peut justifier des corrections, par le fait qu'on ait trouvé une relation hauteur-débit plus sûre.

Les corrections apportées aux débits quotidiens ou aux niveaux d'eau quotidiens ne sont pas publiées, du moins pour le moment. Cependant, les stations où on a effectué une révision systématique sont identifiées dans *l'Index de référence des données sur les eaux de surface*. Les publications intitulées *Sommaire chronologique de l'écoulement* contiennent des données sur les moyennes mensuelles et annuelles des débits et sur les extrêmes annuels des débits qu'on a révisées. Les publications intitulées *Sommaire chronologique des niveaux d'eau* renferment les révisions apportées aux niveaux moyens mensuels et annuels ainsi que les extrêmes annuels. Les révisions et corrections apportées aux débits et aux niveaux d'eau après le 1er janvier 1987 sont accompagnées du symbole «R» dans les publications sommaires. On peut obtenir plus de détails sur les révisions en s'adressant au chef régional concerné.

ACCURACY OF HYDROMETRIC DATA

The overall accuracy or the degree of reliability of hydrometric data referred to herein, depends upon

(1) The type of gauge, stability of gauge, accuracy of observation of stage and measurement of reference datum,

(2) The stability of the stage-discharge relationship; or if the control is unstable, the frequency and accuracy of discharge measurements, and

(3) The computation procedures and interpretation of records.

Because of all these variable factors, the number of significant figures used herein has been standardized for uniformity of presentation and does not reflect the degree of accuracy of the data. The Water Resources Branch standard for storing water level data is to three decimal points (0.001 m), although some contributing agencies provide data to two decimal points (0.01 m).

A measure of the reliability of the records can be made by an examination of the distribution of the symbols A, E and B (for discharge data).

In general, data collected during open-water periods are more reliable than those collected during periods of ice conditions or those obtained by estimation. Further, water level data collected utilizing a water-stage recorder are more reliable and accurate than those using a manual gauge only, especially for small or flashy streams.

EXACTITUDE DES DONNÉES HYDROMÉTRIQUES

La précision totale ou le degré d'exactitude des données hydrométriques dont on parle ici sont basés sur

(1) Le type de jauge, la stabilité de la gauge, la précision des observations sur les niveaux et de la mesure de la donnée de référence,

(2) La stabilité de la relation hauteur-débit ou, si l'élément régulateur est changeant, sur la fréquence et la précision des mesures de débits, et

(3) L'évaluation des procédés et l'interprétation des chiffres.

À cause de toutes les variables déjà mentionnées, on a normalisé pour des fins d'uniformité de présentation le nombre de chiffres significatifs, mais ceci ne réflète pas le degré d'exactitude des données. Dans la Direction des ressources en eau, les normes de cueillette des données sur le niveau des eaux sont de l'ordre de trois décimales (0.001 m), alors que certains organismes dans ce domaine n'exigent que deux décimales (0.01 m).

L'exactitude des données peut être appréciée par l'examen de la répartition des symboles A, E et B (pour les données de débits).

En général, les données recueillies au cours des périodes d'eau libre sont plus sûres que celles qui sont obtenues au cours des périodes de glaces ou par estimation. De plus, les données sur le niveau des eaux qui sont mesurées à l'aide d'un limnigraphe sont plus certaines et plus exactes que celles qui sont mesurées à l'aide d'une jauge manuelle seulement, surtout dans le cas de petits cours d'eau ou de cours d'eau à crues très rapides.

STREAMFLOW DATA/DONNÉES SUR L'ÉCOULEMENT

ANGLING RIVER NEAR BIRD - STATION NO. OSUH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	0.639	0.655	0.508	0.503	17.3	32.8	24.3	13.2	10.8	15.8	7.38	3.87	10.7	1979
1980	1.25	0.826	0.642	17.7	28.2	24.0	32.4	27.7	30.3	18.5	6.26	3.21	18.1	1980
1981	1.88	1.16	0.733	0.886	46.3	30.0	12.6	16.3	5.98	18.4	6.98	2.80	12.2	1981
1982	1.32	0.935	0.781	0.804	45.4	15.5	7.07	8.85	10.6	14.4	5.90	3.18	8.85	1982
1983	2.06	1.59	1.29	1.11	26.6	123	7.42	14.0	37.9	21.9	10.0	5.06	20.9	1983
1984	3.14	1.88	1.26	---	---	26.5	8.07	2.19	1.43	2.75	2.16	1.36	---	1984
1985	0.880	0.851	0.527	---	---	44.8	19.4	2.75	1.49	4.07	2.05	1.13 R	---	1985
1986	0.626	0.461	0.388	0.311	62.6	20.9	16.7	30.4	13.5	9.41	5.71R	3.22 R	14.0 R	1986
1987	1.80	1.12	0.810	---	---	---	---	---	10.8	7.88	4.17	1.57	---	1987
1988	0.829	0.517	0.357	0.288	78.7	25.1	5.53	4.05	4.16	4.44	2.02	0.834	10.7	1988
MEAN	1.46	0.991	0.748	3.05	43.9	38.1	14.8	13.3	12.7	11.9	5.26R	2.80 R	13.5 R	MEAN

LOCATION - LAT 58 40 38 N
LONG 93 38 20 W

DRAINAGE AREA, 1 830 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

ANGLING RIVER NEAR BIRD - STATION NO. OSUH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	48.8 ON JUN 4	0.4008 ON APR 13	337 000	1979
1980	88.4 AT 22:34 CST ON APR 25	88.5 ON APR 25	0.8008 ON FEB 13	508 000	1980
1981	---	116 B ON MAY 21	0.8558 ON MAY 12	384 000	1981
1982	---	88.58 ON MAY 8	0.7128 ON APR 24	305 000	1982
1983	313 AT 18:00 CST ON JUN 2 *	307 ON JUN 2 *	1.02 B ON MAY 17	880 000	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	182 A ON MAY 18	0.2888 ON MAY 2	442 000R	1986
1987	---	---	---	---	1987
1988	---	173 E ON MAY 5	0.2748 ON APR 17 *	339 000	1988
				425 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1987

ANTLER RIVER NEAR MELITA - STATION NO. 05NF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.001	---	---	---	1935
1936	---	---	---	---	0.323	0.038	---	---	---	---	---	---	---	1936
1938	---	---	---	0.029	0.002	---	---	---	---	---	---	---	---	1938
1943	---	---	0	11.3	0.917	1.49	0.484	0.081	0.022	0.008	---	---	---	1943
1944	---	---	0	0.259	0.137	0.879	1.37	0.259	0.104	0.018	---	---	---	1944
1945	---	---	0.325	0.534	0.132	0.181	0.374	0.088	0.002	0	---	---	---	1945
1946	---	---	2.45	8.46	0.323	0.105	0.047	0.001	0	0	---	---	---	1946
1947	---	---	0	7.20	0.819	3.38	3.83	0.275	0.033	0.005	---	---	---	1947
1948	---	---	0	11.6	8.23	0.898	0.522	0.488	0.054	0.013	---	---	---	1948
1949	---	---	0	9.93	0.815	2.58	0.266	0.135	0.011	0.017	0.023	---	---	1949
1950	---	---	0.631	7.18	3.50	1.84	1.53	3.37	0.539	0.731	---	---	---	1950
1951	---	---	0	12.4	10.0	1.17	0.272	0.334	0.110	0.047	---	---	---	1951
1952	---	---	0.022	3.15	0.124	0.010	0.058	0	0	0.003	---	---	---	1952
1953	---	---	0.015	2.84	0.388	2.21	0.878	0.058	0	0.088	0.288	---	---	1953
1954	---	---	0	0.400	0.275	4.54	3.91	0.288	0.327	0.552	0.650	---	---	1954
1955	---	---	0	15.8	8.03	2.89	1.47	0.278	0.102	0.131	---	---	---	1955
1956	---	---	0.002	11.5	2.40	0.467	0.218	0.020	0	0.005	---	---	---	1956
1957	---	---	0.809	1.83	0.351	0.225	0.004	0	0	0	---	---	---	1957
1958	---	---	0.695	4.88	0.232	0	0	0	0	0	---	---	---	1958
1959	---	---	0.370	0.177	0.019	0.001	0	0	0	0.002	---	---	---	1959
1960	---	---	0.018	5.89	0.227	0.070	0.001	0	0	0	---	---	---	1960
1961	---	---	0.005	0.002	0.003	0	0	0	0	0	---	---	---	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	---	1962
1963	---	---	0	0	0	0.788	0.048	0.147	0.521	0.055	---	---	---	1963
1964	---	---	0	4.10	2.18	0.389	0.188	0.027	0.004	0.003	---	---	---	1964
1965	---	---	0	1.75	0.878	0.403	0.086	0.011	0.007	0.030	---	---	---	1965
1966	---	---	1.28	3.00	1.52	0.345	0.121	0.006	0	0	---	---	---	1966
1967	---	---	0.010	0.364	0.250	0.048	0.003	0	0	0	---	---	---	1967
1968	---	---	0.203	0.183	0.011	0	0.012	0.015	0.006	0	---	---	---	1968
1969	---	---	0	28.7	2.18	0.592	2.59	0.551	0.035	0.091	---	---	---	1969
1970	---	---	0.045	5.06	5.86	1.04	0.292	0.181	0.014	0.126	---	---	---	1970
1971	---	---	0.010	1.63	0.445	1.17	0.391	0.006	0.001	0.006	---	---	---	1971
1972	---	---	5.88	4.11	0.743	0.835	0.324	0.200	0.048	0.011	---	---	---	1972
1973	---	---	0.467	0.245	0.198	0.474	0.081	0.003	0	0.001	---	---	---	1973
1974	---	---	0	20.2	5.88	1.94	0.448	0.086	0.002	0.004	---	---	---	1974
1975	---	---	0.006	8.14	14.4	4.23	0.873	0.525	1.55	2.75	---	---	---	1975
1976	---	---	0.293	53.3	5.65	1.76	0.812	0.123	0.010	0.012	---	---	---	1976
1977	---	---	0.014	0.068	0.132	0.010	0	0	0	0	0	0	---	1977
1978	0	0	0.002	1.06	0.101	0	0	0	0	0	0	0	0.096	1978
1979	0	0	0	7.39	2.84	0.414	0.086	0.035	0.007	0	0	0	M.877	1979
1980	0	0	0	0.084	0.068	0	0	0	0	0	0	0	0.013	1980
1981	0	0.226	0.362	0.023	0.001	0	0	0	0	0	0	0	0.048	1981
1982	0	0	0	5.23	0.734	0.204	0.117	0.001	0	0	0	0	0.518	1982
1983	0	0	0.051	6.27	1.14	0.195	0.079	0	0	0	0	0	0.638	1983
1984	0	0	0.001	0.205	0.185	0.018	0	0	0	0	0	0	0.032	1984
1985	0	0	2.82	1.77	0.272	0.033	0	2.41	1.87	1.44	0.700	0.191	0.882	1985
1986	0.094	0.088	3.65	1.45	2.79	0.318	1.03	0.858	0.023	0.083	0.077	0.058	0.888	1986
1987	0.023	0.049	2.87	8.31	0.384	0.288	0.030	0.023	0	0.001	0.002	0.001	0.829	1987
1988	0	0	0	0	0.003	0	0	0	0	0	0	0	0	1988
MEAN	0.011	0.031	0.526	6.06	1.66	0.820	0.488	0.231	0.122	0.132	0.116	0.021	0.448	MEAN

LOCATION - LAT 49 03 34 N DRAINAGE AREA, 3 210 km²
LONG 101 02 56 W NATURAL FLOW

REMARKS - MONTHLY MEAN NATURAL FLOWS FOR THE PERIOD 1912-77 HAVE BEEN COMPUTED BY THE PRAIRIE PROVINCES WATER BOARD

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	0 ON SEP 26 *	---	1935
1936	---	---	---	---	1936
1938	---	---	0 ON MAY 15	---	1938
1943	---	47.3 ON APR 9	0B ON MAR 1	---	1943
1944	---	4.56 ON JUL 2	0B ON MAR 1	---	1944
1945	---	3.23 B ON MAR 29	0B ON MAR 1	---	1945
1946	---	41.3 B ON MAR 31	0B ON MAR 1	---	1946
1947	---	28.7 ON JUN 29	0B ON MAR 1	---	1947
1948	---	73.9 ON APR 26	0B ON MAR 1	---	1948
1949	---	59.5 ON APR 14	0B ON MAR 1	---	1949
1950	---	15.7 B ON APR 21	0B ON MAR 1	---	1950
1951	---	34.5 ON APR 14	0B ON MAR 1	---	1951
1952	---	6.58 B ON APR 5	0B ON MAR 1	---	1952
1953	---	8.87 B ON APR 7	0B ON MAR 1	---	1953
1954	---	12.0 ON JUN 21	0B ON MAR 1	---	1954
1955	---	58.8 ON APR 9	0B ON MAR 1	---	1955
1956	---	30.6 ON APR 15	0B ON MAR 1	---	1956
1957	---	6.71 B ON MAR 30	0B ON MAR 1	---	1957
1958	---	17.7 ON APR 4	0B ON MAR 1	---	1958
1959	---	2.07 ON MAR 30	0B ON MAR 1	---	1959
1960	---	21.5 ON APR 7	0B ON MAR 1	---	1960
1961	---	0.028 ON MAR 20	0 ON MAR 1	---	1961
1962	---	0 ON MAR 1	0 ON MAR 1	---	1962
1963	---	2.85 ON JUN 8	0 ON MAR 1	---	1963
1964	---	9.81 B ON APR 6	0B ON MAR 1	---	1964
1965	---	8.68 B ON APR 17	0B ON MAR 1	---	1965
1966	---	8.64 B ON APR 6	0B ON MAR 1	---	1966
1967	---	0.708 ON APR 21	0B ON MAR 1	---	1967
1968	---	0.8788 ON APR 3	0B ON MAR 1	---	1968
1969	---	105 ON APR 17	0B ON MAR 1	---	1969
1970	---	27.2 ON MAY 5	0B ON MAR 1	---	1970
1971	---	4.53 B ON APR 13	0 ON AUG 22	---	1971
1972	---	22.7 B ON MAR 26	0B ON MAR 1	---	1972
1973	---	1.27 B ON MAR 25	0B ON MAR 1	---	1973
1974	---	73.6 B ON APR 20	0B ON MAR 1	---	1974
1975	82.3 AT 18:55 CST ON MAY 3	81.7 ON MAY 3	---	---	1975
1976	119 AT 08:27 CST ON APR 14 *	118 ON APR 14 *	0 ON AUG 30	---	1976
1977	---	0.215 ON MAY 17	0B ON MAR 1	---	1977
1978	---	3.71 B ON APR 4	0B ON JAN 1	3 030	1978
1979	42.4 AT 01:28 CST ON APR 25	39.8 ON APR 25	0B ON JAN 1	27 700	1979
1980	0.553 AT 17:56 CST ON APR 18	0.396 ON APR 18	0B ON JAN 1	402	1980
1981	---	2.86 B ON FEB 27	0B ON JAN 1	1 880	1981
1982	28.1 AT 05:32 CST ON APR 18	26.9 ON APR 18	0B ON JAN 1	16 400	1982
1983	13.8 AT 07:27 CST ON APR 27	13.5 ON APR 27	0B ON JAN 1	20 100	1983
1984	0.6888 AT 07:08 CST ON APR 3	0.4378 ON APR 3	0B ON JAN 1	1 020	1984
1985	11.2 B AT 08:38 CST ON MAR 23	10.6 B ON MAR 23	0B ON JAN 1	31 000	1985
1986	7.02 AT 03:11 CST ON MAY 14	6.81 ON MAY 14	0 ON SEP 12	27 400	1986
1987	18.7 AT 23:41 CST ON APR 9	18.0 ON APR 10	0 ON JUL 6	26 200	1987
1988	0.021 AT 06:43 CST ON MAY 4	0.015 ON MAY 3	0B ON JAN 1	9.33	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 100	MEAN

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.389	0.132	0.052	0.014	0	0	0	0.059	---	---	0.081	1959
1960	---	---	0	2.02	0.190	0.141	0	0	0	0	---	---	0.288	1960
1961	---	---	0.044	0.120	0.087	0.010	0	0	0	0	---	---	0.030	1961
1962	---	---	0	0.898	0.086	0.032	0	0.085	0.006	0.052	---	---	0.102	1962
1963	---	---	0.886	0.635	0.088	0.173	0.018	0.013	0.015	0.012	---	---	0.228	1963
1964	---	---	0	1.93	0.274	0.030	0.038	0.005	0.004	0.028	---	---	0.284	1964
1965	---	---	0	1.52	0.133	0.088	0.006	0	0.137	0.043	---	---	0.234	1965
1966	---	---	0.200	0.814	0.300	0.045	0.005	0.031	0.001	0.013	---	---	0.150	1966
1967	---	---	0.012	3.21	0.847	0.030	0	0	0	0.005	---	---	0.505	1967
1968	---	---	0.814	0.531	0.087	0.010	0.037	0.034	0.027	0.087	---	---	0.197	1968
1969	---	---	0	5.41	0.249	0.048	0.132	0.002	0.013	0.052	---	---	0.725	1969
1970	---	---	0	1.60	0.888	0.098	0.007	0	0.071	0.078	---	---	0.338	1970
1971	---	---	0.007	0.888	0.088	0.880	0.442	0.010	0.010	0.124	---	---	0.255	1971
1972	---	---	0.803	2.37	0.455	0.033	0.001	0.010	0	0.013	---	---	0.432	1972
1973	---	---	0.133	0.082	0.051	0.028	0.022	0.006	0.025	0.084	---	---	0.048	1973
1974	---	---	0	4.09	0.838	0.085	0.006	0	0.002	0.004	---	---	0.815	1974
1975	---	---	0	1.85	0.883	0.332	0.033	0.087	0.198	0.146	---	---	0.410	1975
1976	---	---	0	5.71	0.478	0.119	0.025	0	0.002	0.040	---	---	0.782	1976
1977	---	---	0.067	0.228	0.134	0.134	0.040	0	0.008	0.028	---	---	0.080	1977
1978	---	---	0.144	0.856	0.152	0.084	0.147	0.004	0.022	0.040	---	---	0.152	1978
1979	---	---	0.003	3.16	1.60	0.155	0.006	0	0	0	---	---	0.810	1979
1980	---	---	0.010	0.418	0.013	0	0.026	0.088	0.021	0.058	---	---	0.076	1980
1981	---	0.221	0.047	0.085	0.088	0.072	0.011	0.011	0.045	0.089	---	---	0.068	1981
1982	---	---	0.447	1.82	0.111	0.077	0.048	0	0.001	0.087	---	---	0.318	1982
1983	---	---	0	2.45	0.761	0.050	0.038	0	0	0	---	---	0.408	1983
1984	---	---	0.148	0.090	0.047	0.026	0.001	0	0	0.006	---	---	0.040	1984
1985	---	---	0.528	1.15	0.054	0.013	0.003	0.050	0.085	0.070	---	---	0.257	1985
1986	---	---	0.872	3.41	1.04	0.098	0.047	0	0.001	0.089	---	---	0.885	1986
1987	---	---	0.180	2.88	0.050	0.014	0.080	0.001	0.003	0.021	---	---	0.371	1987
1988	---	---	0.046	0.156	0.174	0.002	0	0	0	0	---	---	0.047	1988
MEAN	---	0.221	0.188	1.84	0.340	0.088	0.040	0.013	0.024	0.040	---	---	0.293	MEAN

LOCATION - LAT 50 05 10 N DRAINAGE AREA, 670 km²
LONG 100 57 30 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM DAILY DISCHARGE OF 0.712 m³/s OCCURRED IN FEB

ARROW RIVER NEAR ARROW RIVER - STATION NO. 05MG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	2.48 B ON MAR 21	0B ON MAR 1 *	1 720	1959
1960	---	5.17 ON APR 16	0B ON MAR 1	5 100	1960
1961	---	0.4258 ON MAR 29	0B ON MAR 1	632	1961
1962	---	2.56 ON APR 16	0B ON MAR 1	2 180	1962
1963	---	5.15 B ON MAR 27	0B ON MAR 1	4 830	1963
1964	---	5.20 ON APR 15	0B ON MAR 1	5 010	1964
1965	---	5.41 B ON APR 13	0B ON MAR 1	4 840	1965
1966	---	1.81 B ON APR 1	0B ON MAR 1	2 180	1966
1967	---	7.22 B ON APR 12	0B ON MAR 1	10 700	1967
1968	---	5.52 B ON MAR 27	0B ON MAR 1	4 180	1968
1969	---	30.0 ON APR 11 *	0B ON MAR 1	15 300	1969
1970	---	4.93 B ON APR 10	0B ON MAR 1	7 110	1970
1971	---	2.70 B ON APR 7	0 ON MAR 1	5 380	1971
1972	---	4.26 ON APR 12	0B ON MAR 1	9 130	1972
1973	---	0.4368 ON MAR 18	0B ON MAR 1	1 010	1973
1974	18.7 AT 19:00 CST ON APR 18 *	14.3 ON APR 18	0B ON MAR 1	13 000	1974
1975	6.06 AT 00:05 CST ON APR 29	5.48 ON APR 29	0B ON MAR 1	8 670	1975
1976	---	17.6 B ON APR 10	0B ON MAR 1	18 800	1976
1977	1.35 B AT 18:11 CST ON APR 3	0.883 ON MAY 19	0B ON MAR 1	1 890	1977
1978	2.80 B AT 13:46 CST ON APR 1	1.76 B ON MAR 31	0B ON MAR 1	3 230	1978
1979	---	19.3 B ON APR 21	0 ON JUL 9	12 900	1979
1980	---	1.57 B ON APR 3	0B ON MAR 1	1 800	1980
1981	---	0.248 ON SEP 1	0 ON JUL 11	1 010	1981
1982	---	6.13 B ON APR 11	0B ON MAR 1	8 730	1982
1983	---	6.13 B ON APR 10	0B ON MAR 1	8 830	1983
1984	0.8318 AT 12:57 CST ON MAR 22	0.5798 ON MAR 24	0B ON MAR 1	842	1984
1985	4.03 B AT 00:20 CST ON APR 5	2.70 B ON APR 5	0B ON MAR 1	5 430	1985
1986	8.81 B AT 19:01 CST ON APR 1	7.14 ON APR 2	0B ON MAR 1	14 500	1986
1987	---	9.88 ON APR 8	0B ON MAR 1	7 840	1987
1988	1.14 AT 15:42 CST ON MAY 2	0.896 ON MAY 3	0 ON JUN 7	998	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 200	MEAN

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1966
1967	---	---	0	0.010	0	0	0	0	0	0	---	---	0.001	1967
1968	---	---	0.004	0	0	0	0	0	0	0	---	---	0.001	1968
1969	---	---	0	0.008	0	0	0	0	0	0	---	---	0.001	1969
1970	---	---	0	0.008	0.001	0	0	0	0	0	---	---	0.001	1970
1971	---	---	0	0.008	0	0	0	0	0	0	---	---	0.001	1971
1972	---	---	0	0.023	0.012	0	0	0	0	0	---	---	0.004	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.024	0.002	0	0	0	0	0	---	---	0.003	1974
1975	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1975
MEAN	---	---	0.001	0.008	0.002	0	0	0	0	0	---	---	0.001	MEAN

LOCATION - LAT 50 25 05 N DRAINAGE AREA, 4.25 km²
LONG 100 49 02 W NATURAL FLOW

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

ARROW RIVER NEAR KELLOE - STATION NO. 05MG009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1966	---	0.0108 ON MAR 30	0B ON MAR 1 *	4.05	1966
1967	---	0.0858 ON APR 14	0B ON MAR 1	26.9	1967
1968	---	0.0518 ON MAR 28	0B ON MAR 1	12.7	1968
1969	---	0.0408 ON APR 9	0B ON MAR 1	14.5	1969
1970	---	0.0228 ON APR 13	0B ON MAR 1	16.0	1970
1971	---	0.0828 ON APR 7	0B ON MAR 1	22.8	1971
1972	---	0.078 ON APR 24	0B ON MAR 1	92.7	1972
1973	---	0 B ON MAR 1	0B ON MAR 1	0	1973
1974	---	0.3848 ON APR 17 *	0B ON MAR 1	85.4	1974
1975	---	0.0488 ON APR 14	0B ON MAR 1	14.7	1975
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27.0	MEAN

ASSINIBOINE RIVER AT BRANDON - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1906	---	---	---	14.2	14.7	21.4	17.7	5.46	22.8	20.6	14.2	---	---	1906
1907	---	---	---	84.9	123	138	123	80.0	90.6	76.0	61.0	---	---	1907
1908	---	---	---	85.1	105	88.5	83.3	38.0	27.8	32.1	28.4	---	---	1908
1909	---	---	---	85.0	107	48.8	49.5	75.8	34.3	28.9	22.7	---	---	1909
1910	---	---	---	86.7	34.8	82.7	88.1	28.7	19.4	15.3	14.2	---	---	1910
1911	---	---	---	42.5	88.5	84.7	83.3	30.7	27.2	38.6	19.8	---	---	1911
1912	---	---	---	88.1	182	130	80.5	48.2	87.7	101	52.2	28.8	---	1912
1913	12.0	10.8	11.4	178	268	98.1	116	102	46.7	29.3	19.8	11.8	77.4	1913
1914	8.46	8.51	11.1	81.7	152	86.1	21.8	7.94	8.34	8.84	7.09	4.81	30.0	1914
1915	1.48	2.67	3.42	27.2	18.4	13.0	15.0	10.1	8.97	8.48	8.74	4.38	9.48	1915
1916	2.48	2.58	2.58	118	72.1	94.5	90.3	24.8	13.8	17.0	18.4	10.3	38.0	1916
1917	4.88	3.96	4.41	53.3	172	72.2	82.4	20.1	11.1	7.47	7.83	4.63	35.6	1917
1918	2.27	2.59	8.47	51.7	28.8	28.2	22.8	10.8	9.88	8.21	7.00	4.06	15.3	1918
1919	3.40	2.67	2.81	83.1	34.8	17.3	32.2	9.08	8.17	8.72	8.23	4.06	17.8	1919
1920	4.25	4.26	6.06	57.3	185	70.0	22.1	12.3	8.98	8.90	11.5	8.80	33.7	1920
1921	4.24	3.36	4.38	104	124	88.5	104	41.9	26.5	50.8	56.4	24.8	53.1	1921
1922	12.2	7.28	10.4	130	432	228	86.8	31.9	21.9	16.1	17.2	10.9	82.5	1922
1923	7.27	6.19	6.03	126	412	122	128	76.4	35.5	27.3	22.3	16.1	82.7	1923
1924	6.83	8.35	8.95	82.8	95.2	50.3	38.6	22.5	16.7	19.7	16.5	9.84	29.7	1924
1925	5.88	5.05	22.0	231	137	86.3	57.6	16.5	11.7	13.0	9.89	6.46	50.4	1925
1926	3.82	2.88	6.08	55.0	41.0	27.0	15.1	7.73	13.9	19.5	14.2	8.81	14.0	1926
1927	5.83	4.64	7.08	140	389	158	86.9	49.9	37.3	40.6	21.8	11.3	78.1	1927
1928	6.88	7.08	19.8	148	101	82.3	87.9	28.9	14.8	12.8	12.9	6.84	44.1	1928
1929	3.78	4.13	6.41	37.3	45.6	26.1	13.6	6.22	4.78	5.28	8.47	4.88	13.8	1929
1930	2.81	2.38	4.18	57.9	37.4	21.4	15.2	8.37	2.84	4.40	3.46	2.42	13.3	1930
1931	2.37	2.28	6.03	18.3	10.6	7.36	5.86	4.18	4.03	4.39	3.88	1.98	5.85	1931
1932	1.63	1.70	2.32	37.4	25.1	10.6	10.7	5.32	4.85	5.48	5.38	3.74	9.50	1932
1933	2.97	2.72	3.17	76.7	40.2	48.8	24.9	8.02	4.61	5.86	5.66	4.25	18.8	1933
1934	2.67	3.40	17.0	76.5	48.8	18.4	8.98	2.87	3.10	4.12	4.23	2.83	18.1	1934
1935	2.17	2.45	4.00	35.9	23.7	27.2	95.5	21.2	11.7	9.87	6.45	4.48	20.8	1935
1936	3.88	2.76	2.43	150	122	40.7	19.9	7.32	4.27	4.83	3.86	2.70	30.3	1936
1937	1.93	1.73	2.39	20.8	20.8	17.3	5.28	2.21	1.44	3.60	3.03	0.861	6.77	1937
1938	1.42	1.78	20.8	86.3	27.5	13.0	8.08	5.71	3.20	3.46	3.07	2.31	12.2	1938
1939	2.09	1.76	8.73	31.4	18.4	9.81	10.6	5.47	3.09	3.47	3.88	2.83	8.46	1939
1940	0.829	0.853	1.03	7.87	11.0	6.29	3.96	3.09	2.13	2.57	3.03	1.96	3.70	1940
1941	2.06	2.08	2.13	41.6	22.1	11.0	3.85	2.13	3.88	3.62	3.51	2.30	8.33	1941
1942	1.11	0.805	11.5	112	36.6	33.3	17.3	18.5	21.5	13.4	8.66	2.43	22.8	1942
1943	3.08	1.82	3.89	141	81.7	61.5	37.5	14.7	9.68	7.46	8.84	4.06	33.6	1943
1944	1.28	1.56	1.89	16.9	17.2	29.2	42.5	11.0	9.04	8.41	8.85	3.00	12.4	1944
1945	1.12	1.88	10.2	51.1	42.4	25.8	24.2	10.2	6.00	7.74	6.70	2.70	15.8	1945
1946	1.78	1.88	19.0	119	36.1	14.7	35.5	8.28	4.81	13.3	13.8	4.40	22.8	1946
1947	2.18	2.38	2.82	108	176	82.7	192	28.8	17.4	17.4	11.3	6.49	54.5	1947
1948	5.88	6.77	8.34	76.9	348	105	80.5	38.7	13.1	9.74	9.12	6.05	56.5	1948
1949	3.87	1.07	1.59	76.6	23.8	54.7	18.4	15.5	7.07	8.86	8.40	4.80	16.6	1949
1950	2.87	2.88	8.51	64.0	101	63.4	74.4	44.2	15.0	15.6	13.7	6.83	34.3	1950
1951	5.32	4.38	4.84	123	132	43.3	25.7	12.4	15.7	23.0	17.8	7.44	34.6	1951
1952	3.70	3.28	4.27	82.8	53.8	24.4	14.9	6.84	17.0	8.83	8.83	3.89	19.0	1952
1953	2.78	3.21	3.77	105	81.8	112	115	79.7	37.0	24.3	25.8	12.7	50.4	1953
1954	8.72	7.22	9.85	86.6	138	188	282	87.9	48.7	72.8	48.5	31.1	78.0	1954
1955	16.8	16.8	13.7	236	371	241	118	81.6	35.1	30.7	25.0	18.1	98.0	1955
1956	13.2	12.5	13.6	120	388	282	142	57.3	36.4	21.7	21.2	13.6	80.3	1956
1957	10.9	7.29	21.1	115	208	86.6	26.4	13.0	9.77	10.8	12.2	8.24	41.7	1957
1958	4.20	4.67	11.0	89.4	24.8	10.9	8.15	3.85	3.42	5.81	5.76	2.86	12.0	1958
1959	1.84	1.45	7.38	40.6	23.9	13.8	14.6	4.86	4.38	7.51	8.33	7.30	11.3	1959
1960	5.43	4.67	3.83	132	115	80.8	24.2	8.72	3.42	3.11	3.47	2.42	30.3	1960
1961	2.88	1.85	3.57	16.3	10.7	4.09	1.87	0.929	1.22	1.91	2.00	1.18	4.04	1961
1962	1.34	1.26	2.29	33.7	40.3	10.8	5.10	5.33	3.34	4.53	4.18	2.06	9.84	1962
1963	1.66	1.15	12.7	48.1	20.7	38.9	18.3	9.66	6.45	8.08	4.47	3.28	14.4	1963
1964	2.83	3.47	4.87	86.6	85.1	15.1	7.46	4.22	3.77	4.07	4.87	2.65	13.7	1964
1965	2.88	3.86	4.15	103	87.4	51.6	30.0	12.3	15.2	15.2	7.32	8.89	26.6	1965
1966	7.80	8.58	7.27	97.0	112	38.8	27.9	13.4	8.81	4.58	3.82	3.66	27.8	1966
1967	5.14	5.71	8.82	89.9	123	42.1	10.1	4.11	2.18	4.01	6.34	5.55	23.7	1967
1968	4.50	4.77	13.0	81.5	20.0	10.8	8.29	10.6	8.13	8.15	4.55	3.17	12.6	1968
1969	3.59	4.80	4.68	170	79.6	36.8	48.5	16.5	8.33	11.9	13.1	13.1	34.3	1969
1970	10.9	11.2	12.1	77.6	180	74.3	48.9	28.5	13.8	14.7	21.7	14.1	42.6	1970
1971	12.0	11.0	12.6	82.0	85.7	77.4	46.9	22.6	8.40	18.5	28.6	21.9	32.3	1971
1972	21.2	21.0	38.0	120	131	67.8	16.7	6.28	8.83	10.0	14.2	17.7	39.0	1972
1973	18.3	14.0	14.7	14.1	9.26	11.2	9.89	5.57	8.14	17.5	14.5	13.5	12.8	1973
MEAN	5.20	4.89	8.21	81.1	104	59.8	46.8	22.4	15.8	16.1	13.1	7.57	31.1	MEAN

LOCATION - LAT 49 51 02 N DRAINAGE AREA, 88 000 km²
LONG 99 58 12 W REGULATED

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1906	---	37.4 ON SEP 28	---	---	1906
1907	---	212 ON MAY 2	---	---	1907
1908	---	189 ON JUL 1	---	---	1908
1909	---	119 ON MAY 13	---	---	1909
1910	---	103 ON JUL 5	---	---	1910
1911	---	106 ON JUN 8	---	---	1911
1912	---	202 ON MAY 21	---	---	1912
1913	---	422 ON MAY 1	10.8 RB ON FEB 5	2 440 000	1913
1914	---	186 ON MAY 30	3.00 B ON DEC 30	847 000	1914
1915	---	89.7 ON APR 18	1.05 B ON JAN 13	288 000	1915
1916	---	259 ON APR 18	1.95 RB ON JAN 8	1 230 000	1916
1917	---	184 ON MAY 25	2.55 B ON DEC 26	1 120 000	1917
1918	---	76.7 ON APR 7	1.88 B ON JAN 29	481 000	1918
1919	---	161 B ON APR 16	2.41 B ON MAR 17	881 000	1919
1920	---	217 ON MAY 18	3.37 B ON JAN 1	1 070 000	1920
1921	---	148 ON APR 27	3.08 B ON FEB 25	1 870 000	1921
1922	---	803 ON MAY 8	5.80 B ON MAR 11	2 800 000	1922
1923	---	651 ON MAY 7 *	5.15 B ON FEB 18	2 810 000	1923
1924	---	134 ON MAY 1	7.42 B ON DEC 31	939 000	1924
1925	---	258 ON APR 5	4.81 B ON DEC 31	1 590 000	1925
1926	---	112 ON APR 26	2.83 B ON JAN 31	588 000	1926
1927	---	484 ON MAY 5	4.50 B ON FEB 21	2 480 000	1927
1928	---	229 ON APR 13	3.96 B ON DEC 30	1 390 000	1928
1929	---	118 ON MAY 1	3.64 B ON DEC 31	435 000	1929
1930	---	98.5 ON APR 16	1.98 B ON FEB 8	418 000	1930
1931	---	39.4 ON APR 17	1.70 B ON FEB 12	188 000	1931
1932	---	75.0 ON APR 18	1.53 B ON JAN 1	300 000	1932
1933	---	86.5 ON APR 11	2.72 B ON FEB 1	593 000	1933
1934	---	116 ON APR 14	2.28 B ON DEC 31	507 000	1934
1935	---	185 ON JUL 3	1.87 B ON FEB 4	848 000	1935
1936	---	303 B ON APR 15	2.21 B ON DEC 31	958 000	1936
1937	---	49.3 ON APR 22	0.6808 ON DEC 20	214 000	1937
1938	---	70.8 ON MAR 28	0.9818 ON JAN 1	388 000	1938
1939	---	47.3 ON APR 26	1.50 B ON MAR 3	268 000	1939
1940	---	23.4 ON APR 25	0.4708 ON FEB 4	117 000	1940
1941	---	84.3 ON APR 18	1.56 B ON FEB 27	263 000	1941
1942	---	174 B ON APR 9	0.1988 ON FEB 21 *	721 000	1942
1943	---	187 ON APR 20	1.30 B ON MAR 6	1 060 000	1943
1944	---	73.6 ON JUL 6	0.9838 ON JAN 15	392 000	1944
1945	---	88.3 ON APR 7	0.8508 ON JAN 8	501 000	1945
1946	---	210 ON APR 9	1.25 B ON JAN 6	718 000	1946
1947	---	314 ON JUL 6	1.98 B ON JAN 4	1 720 000	1947
1948	---	460 ON MAY 7	4.64 B ON FEB 29	1 780 000	1948
1949	---	145 ON APR 14	0.7838 ON FEB 16	587 000	1949
1950	---	157 ON JUL 16	2.52 B ON JAN 31	1 080 000	1950
1951	---	214 ON APR 15	3.57 B ON DEC 31	1 090 000	1951
1952	---	134 B ON APR 16	1.70 ON NOV 21	603 000	1952
1953	---	185 ON JUN 4	2.46 B ON JAN 15	1 590 000	1953
1954	---	360 ON JUL 9	5.37 B ON FEB 11	2 490 000	1954
1955	---	541 ON MAY 20	11.8 B ON MAR 17	3 120 000	1955
1956	---	430 ON MAY 16	11.3 B ON DEC 23	2 860 000	1956
1957	---	243 ON MAY 5	4.87 B ON DEC 28	1 320 000	1957
1958	---	135 B ON APR 6	1.30 B ON DEC 21	378 000	1958
1959	---	89.5 ON APR 15	0.9838 ON JAN 20	357 000	1959
1960	345 B AT 18:00 CST ON APR 15	241 ON APR 15	2.27 B ON DEC 18	860 000	1960
1961	---	22.1B ON APR 11	0.585 ON AUG 22	127 000	1961
1962	---	84.7 ON APR 28	1.05 B ON JAN 27	304 000	1962
1963	80.6 AT 14:00 CST ON JUN 13	69.8 ON JUN 13	0.7898 ON FEB 7	453 000	1963
1964	153 AT 19:00 CST ON APR 17	133 ON APR 18	1.76 A ON AUG 28	434 000	1964
1965	200 AT 06:00 CST ON APR 20	199 ON APR 20	2.56 B ON JAN 15	847 000	1965
1966	154 AT 12:00 CST ON MAY 6	154 ON MAY 6	2.85 B ON NOV 30	868 000	1966
1967	---	159 ON APR 21	1.80 ON SEP 8	748 000	1967
1968	---	81.0 ON APR 12	2.44 B ON DEC 31	389 000	1968
1969	362 AT 07:49 CST ON APR 17 *	360 ON APR 17	2.28 B ON JAN 2	1 080 000	1969
1970	223 AT 23:38 CST ON MAY 15	222 ON MAY 18	10.1 ON SEP 17	1 340 000	1970
1971	185 AT 08:21 CST ON APR 18	142 ON APR 18	6.26 ON SEP 25	1 020 000	1971
1972	223 AT 08:00 CST ON APR 20	221 ON APR 20	5.13 ON SEP 6	1 230 000	1972
1973	---	24.5B ON APR 5	4.02 ON AUG 20	398 000	1973
				981 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	14.2	11.3	11.3	147	318	130	108	113	57.3	33.2	---	14.2	---	1913
1914	10.0	9.01	9.20	86.2	173	93.7	38.1	16.2	12.2	11.6	8.50	8.51	40.1	1914
1915	3.45	3.97	5.94	30.2	23.8	17.9	18.9	15.4	10.8	12.4	9.91	4.53	13.1	1915
1916	6.42	6.18	8.44	202	189	143	112	41.7	22.3	23.5	21.5	12.2	65.8	1916
1917	6.61	5.96	8.91	88.0	206	113	74.3	32.8	19.1	15.8	18.2	8.13	48.0	1917
1918	3.14	3.25	9.62	72.0	40.1	38.1	28.5	17.7	17.5	12.8	11.8	7.85	21.7	1918
1919	6.58	5.90	6.04	113	80.5	36.8	36.8	17.8	14.6	15.1	10.7	6.55	29.3	1919
1920	5.29	4.86	8.13	88.2	240	115	39.6	22.5	13.7	12.1	13.6	7.45	47.5	1920
1921	5.21	3.75	5.13	113	148	83.2	117	58.5	35.5	56.5	58.7	30.7	60.8	1921
1922	16.6	8.88	17.7	182	412	278	80.6	46.9	32.2	27.5	26.7	16.6	95.0	1922
1923	13.3	11.7	10.6	154	478	203	148	105	50.6	39.6	32.1	27.5	107	1923
1924	12.4	11.6	14.6	82.6	134	82.3	61.3	32.7	25.8	28.4	22.4	15.1	42.0	1924
1925	8.71	7.48	16.7	285	209	125	84.0	32.7	20.0	20.1	16.8	13.2	88.3	1925
1926	7.88	7.57	11.6	56.5	80.8	35.9	27.5	14.9	20.6	26.2	20.4	15.4	25.4	1926
1927	12.1	10.2	20.2	226	438	284	158	78.8	66.2	64.1	28.8	19.2	117	1927
1928	16.1	12.7	33.4	247	170	120	147	75.2	42.3	29.8	24.0	10.8	77.5	1928
1929	8.07	8.36	10.4	49.9	73.6	47.8	25.0	11.0	7.95	8.58	7.28	8.85	22.3	1929
1930	7.02	5.31	7.70	138	78.2	40.4	27.3	13.0	10.0	10.3	7.06	5.87	28.3	1930
1931	6.33	6.09	9.12	36.4	20.6	12.4	11.0	7.07	7.21	7.84	7.85	4.81	11.4	1931
1932	3.87	3.24	4.84	79.2	42.1	18.3	15.1	8.42	7.19	7.82	7.86	5.34	18.9	1932
1933	4.29	3.89	4.76	122	73.2	51.9	35.1	13.6	9.00	7.03	7.38	6.85	29.1	1933
1934	5.98	6.84	28.2	108	72.2	28.4	13.8	7.55	6.83	7.85	6.90	3.80	24.8	1934
1935	3.13	3.63	4.28	78.0	41.7	32.7	150	44.9	22.6	15.4	9.43	6.88	34.7	1935
1936	5.14	5.34	3.85	159	164	57.7	28.6	12.9	10.1	8.58	7.37	3.18	39.0	1936
1937	3.11	3.58	4.33	29.7	34.5	28.5	12.8	6.81	5.20	6.12	6.29	3.27	12.2	1937
1938	2.67	3.35	30.0	76.5	40.7	19.0	12.8	8.55	6.08	6.04	5.07	4.55	18.0	1938
1939	4.12	3.80	4.40	53.9	29.3	17.1	12.1	9.88	6.23	6.22	6.29	4.61	13.2	1939
1940	1.83	2.08	2.54	18.3	20.5	10.8	7.26	5.27	5.75	5.85	4.47	3.37	7.26	1940
1941	3.13	4.05	3.91	74.3	40.7	22.7	10.8	8.40	10.5	9.47	8.07	5.89	18.4	1941
1942	1.88	2.99	11.5	184	84.0	48.6	28.2	21.1	28.8	20.5	12.9	5.82	37.4	1942
1943	5.86	5.27	8.18	182	171	140	77.5	34.7	17.2	14.4	12.2	8.70	56.9	1943
1944	3.38	4.11	4.13	28.2	37.3	47.2	93.3	38.2	27.0	21.8	14.2	8.38	27.5	1944
1945	8.17	6.88	27.2	102	56.8	41.1	35.8	18.1	12.2	13.1	9.12	6.84	28.8	1945
1946	4.71	4.77	27.8	152	58.6	25.2	32.5	17.5	11.1	17.5	17.7	9.34	31.6	1946
1947	4.76	4.87	8.53	144	217	91.8	224	68.7	31.2	27.0	17.7	13.2	70.5	1947
1948	11.5	8.80	8.67	83.5	383	210	88.0	66.5	29.4	19.7	15.3	12.5	75.8	1948
1949	10.4	8.30	5.47	188	151	87.6	35.8	33.1	14.1	13.7	15.2	10.4	47.7	1949
1950	8.17	5.80	5.03	112	228	155	117	79.7	38.4	29.1	21.0	12.4	57.9	1950
1951	11.8	11.0	13.4	187	237	118	57.7	22.0	22.2	26.3	21.2	14.8	60.5	1951
1952	7.65	7.79	7.45	109	95.7	39.6	23.1	13.0	19.9	13.3	9.75	6.80	29.6	1952
1953	5.65	5.76	5.74	102	87.2	148	144	121	56.0	33.7	38.7	19.0	84.9	1953
1954	16.3	13.4	18.0	86.2	147	187	307	147	68.0	97.6	68.9	41.6	98.8	1954
1955	28.3	25.1	21.3	308	440	378	194	94.0	54.7	48.2	28.8	25.4	137	1955
1956	19.5	16.4	17.1	182	473	368	192	89.2	53.3	37.9	30.7	25.8	126	1956
1957	18.4	12.8	27.8	137	230	90.0	47.9	32.3	26.4	23.3	21.8	17.8	57.4	1957
1958	7.82	8.95	11.4	102	37.9	21.2	17.1	9.10	7.78	9.84	9.85	4.87	20.8	1958
1959	4.55	3.78	5.26	78.0	38.3	25.0	21.6	10.4	9.82	20.3	21.7	13.2	21.0	1959
1960	8.83	10.3	9.66	259	195	101	40.3	15.5	11.1	11.4	9.14	5.48	56.2	1960
1961	5.75	4.28	9.33	44.0	23.3	11.2	6.26	3.80	4.43	5.78	4.80	2.77	10.4	1961
1962	2.78	2.52	2.89	72.3	67.6	30.2	15.7	28.4	17.8	9.37	8.61	5.40	22.0	1962
1963	1.84	1.88	8.11	83.0	38.1	58.6	32.7	17.7	11.7	10.7	7.37	5.08	23.9	1963
1964	5.49	6.53	7.53	78.3	85.3	31.1	18.5	12.0	11.5	12.0	8.27	4.86	23.5	1964
1965	5.26	5.70	5.81	141	115	79.8	57.8	30.8	27.3	32.8	18.7	15.0	44.4	1965
1966	11.0	11.4	38.3	183	168	89.2	41.6	19.8	15.0	9.59	7.33	8.48	48.5	1966
1967	8.14	8.04	9.39	108	155	69.5	21.2	9.78	5.70	7.02	8.81	7.71	34.7	1967
1968	7.81	7.42	15.6	89.5	32.2	15.7	12.0	17.8	21.3	14.8	11.2	8.31	21.0	1968
1969	4.36	6.02	6.38	288	322	136	98.3	51.5	22.2	18.3	18.4	17.7	82.6	1969
1970	16.8	15.1	15.0	115	284	183	118	58.8	24.5	25.3	24.4	18.0	73.2	1970
1971	15.3	14.8	16.8	93.0	124	113	78.8	42.9	18.3	27.3	34.4	29.7	50.7	1971
1972	24.8	25.6	43.0	86.5	217	110	65.5	23.1	16.1	23.2	23.6	21.5	55.7	1972
1973	23.3	19.4	24.2	30.6	16.6	23.4	19.0	14.4	13.2	28.3	18.1	17.5	20.7	1973
1974	18.2	16.8	19.7	147	383	315	141	73.0	44.7	39.4	38.2	38.6	105	1974
1975	32.3	28.8	26.9	82.8	248	247	188	89.4	72.0	102	78.3	54.4	101	1975
1976	46.8	39.8	34.7	312	389	248	150	64.5	46.0	30.5	22.4	16.4	119	1976
1977	21.3	18.2	16.2	29.5	22.5	17.2	19.4	15.8	17.5	18.8	18.7	17.9	19.6	1977
1978	16.8	16.8	22.2	86.4	67.6	28.8	19.9	14.8	14.3	15.5	14.2	13.9	28.0	1978
1979	12.0	13.4	16.4	110	239	234	117	35.8	18.7	15.3	16.4	19.5	70.8	1979
1980	23.0	20.0	18.8	54.5	23.8	11.5	11.1	14.2	18.8	18.2	19.3	17.8	20.7	1980
1981	15.3	13.3	29.8	27.1	16.6	15.4	13.9	8.88	17.3	16.3	16.6	13.5	17.0	1981
1982	13.4	12.5	13.3	87.6	110	71.1	21.0	14.5	18.1	21.3	22.4	21.1	38.2	1982
1983	22.3	21.8	27.3	139	178	91.1	37.6	38.8	31.2	24.8	29.5	19.3	55.1	1983
1984	20.5	17.4	16.7	33.4	30.4	43.8	29.4	12.6	9.44	15.8	18.0	17.8	21.9	1984
1985	17.7	18.5	42.2	137	84.7	84.7	22.5	22.1	29.0	28.5	25.5	27.6	43.3	1985
1986	25.1	25.1	56.0	188	182	70.5	32.6	20.7	18.5	21.6	18.5	18.7	53.3	1986
1987	19.5	18.7	22.2	155	89.4	27.1	21.6	23.9	21.1	19.3	17.8	14.6	35.8	1987
1988	9.52	7.98	13.5	33.7	84.9	50.2	33.2	10.9	12.4	8.83	8.17	8.34	21.6	1988
MEAN	11.0	10.1	14.9	117	148	93.0	63.7	34.4	22.3	21.8	18.1	13.4	48.8	MEAN

LOCATION - LAT 49 52 09 N DRAINAGE AREA, 153 000 km²
LONG 97 24 10 W REGULATED

ASSINIBOINE RIVER AT HEADINGLEY - STATION NO. 05MJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	398 ON MAY 6	---	---	1913
1914	---	185 ON MAY 19	2.49 B ON DEC 31	1 270 000	1914
1915	---	47.8 ON APR 27	3.23 B ON JAN 1	415 000	1915
1916	---	814 ON APR 27 *	5.86 ON FEB 11	2 070 000	1916
1917	---	216 ON MAY 31	3.43 B ON DEC 31	1 810 000	1917
1918	---	128 ON APR 9	2.48 B ON JAN 29	884 000	1918
1919	---	216 ON APR 17	5.96 B ON FEB 26	926 000	1919
1920	---	275 ON MAY 1	4.45 B ON FEB 25	1 500 000	1920
1921	---	174 ON APR 21	3.40 B ON FEB 26	1 920 000	1921
1922	---	547 ON MAY 18	4.21 B ON FEB 21	2 990 000	1922
1923	---	592 ON MAY 16	9.88 B ON MAR 31	3 370 000	1923
1924	---	300 ON APR 28	10.4 B ON DEC 31	1 330 000	1924
1925	---	388 ON APR 7	7.11 B ON FEB 26	2 180 000	1925
1926	---	117 ON APR 30	7.36 B ON FEB 9	802 000	1926
1927	---	518 ON MAY 15	10.0 B ON MAR 3	3 690 000	1927
1928	---	380 ON APR 24	8.86 B ON DEC 31	2 450 000	1928
1929	---	114 ON MAY 2	5.36 B ON NOV 21	702 000	1929
1930	---	275 ON APR 13	4.67 B ON FEB 14	823 000	1930
1931	---	54.4 ON APR 13	4.25 B ON NOV 25	358 000	1931
1932	---	191 ON APR 18	2.82 B ON FEB 22	534 000	1932
1933	---	202 ON APR 19	3.43 B ON FEB 16	919 000	1933
1934	---	217 ON APR 19	3.31 B ON DEC 30	774 000	1934
1935	---	269 ON JUL 6	2.63 B ON FEB 6	1 090 000	1935
1936	---	473 ON APR 22	0.5668 ON DEC 11 *	1 230 000	1936
1937	---	64.8B ON APR 20	2.15 B ON DEC 31	385 000	1937
1938	---	146 B ON APR 10	2.21 B ON JAN 1	586 000	1938
1939	---	92.3B ON APR 16	3.64 B ON DEC 6	415 000	1939
1940	---	80.9 ON APR 25	1.27 B ON JAN 13	230 000	1940
1941	---	264 B ON APR 15	2.69 B ON JAN 23	518 000	1941
1942	---	317 ON APR 16	0.7148 ON JAN 13	1 180 000	1942
1943	---	289 ON APR 15	4.11 B ON DEC 31	1 780 000	1943
1944	---	116 ON JUL 13	2.55 B ON JAN 15	868 000	1944
1945	---	139 ON APR 12	4.38 B ON DEC 19	911 000	1945
1946	---	208 ON APR 14	4.33 B ON MAR 12	988 000	1946
1947	---	320 ON JUL 13	4.22 B ON JAN 11	2 220 000	1947
1948	---	473 ON MAY 18	7.84 B ON MAR 14	2 430 000	1948
1949	---	430 ON APR 18	5.21 B ON MAR 7	1 510 000	1949
1950	---	281 ON MAY 12	3.94 B ON MAR 8	2 140 000	1950
1951	---	286 ON APR 20	7.45 B ON DEC 31	1 910 000	1951
1952	---	230 B ON APR 17	5.89 B ON DEC 1	936 000	1952
1953	---	232 B ON APR 13	4.62 B ON JAN 26	2 050 000	1953
1954	---	382 ON JUL 16	12.0 B ON FEB 11	3 120 000	1954
1955	484 AT 01:00 CST ON MAY 24	481 ON MAY 23	12.3 B ON NOV 9	4 330 000	1955
1956	569 AT 18:00 CST ON APR 26	564 ON APR 26	14.9 B ON FEB 21	3 980 000	1956
1957	248 AT 11:00 CST ON MAY 12	248 ON MAY 12	10.8 B ON DEC 31	1 810 000	1957
1958	283 B AT 21:00 CST ON APR 6	222 B ON APR 6	2.89 B ON DEC 17	648 000	1958
1959	181 B AT 18:00 CST ON APR 14	146 B ON APR 14	3.45 B ON FEB 10	862 000	1959
1960	586 AT 17:00 CST ON APR 19	586 ON APR 18	4.62 B ON DEC 29	1 780 000	1960
1961	140 B AT 12:30 CST ON APR 19	61.4B ON APR 18	1.96 B ON DEC 21	329 000	1961
1962	430 AT 01:00 CST ON APR 24	306 ON APR 24	2.35 B ON MAR 21	683 000	1962
1963	247 AT 06:30 CST ON APR 8	204 ON APR 8	1.13 B ON JAN 27	754 000	1963
1964	277 AT 02:00 CST ON APR 18	228 ON APR 18	4.22 B ON DEC 20	742 000	1964
1965	351 AT 02:00 CST ON APR 19	345 ON APR 19	4.50 B ON JAN 4	1 400 000	1965
1966	314 B AT 05:00 CST ON APR 14	292 B ON APR 14	5.49 B ON DEC 9	1 530 000	1966
1967	248 AT 20:00 CST ON APR 20	236 ON APR 25	3.68 B ON NOV 8	1 080 000	1967
1968	204 B AT 14:10 CST ON APR 11	153 B ON APR 10	4.39 B ON DEC 31	684 000	1968
1969	597 AT 02:54 CST ON APR 28	595 ON APR 28	3.79 B ON JAN 11	2 610 000	1969
1970	340 AT 06:00 CST ON MAY 21	340 ON MAY 20	9.29 B ON NOV 26	2 310 000	1970
1971	180 AT 10:00 CST ON APR 20	158 ON APR 20	12.6 B ON FEB 6	1 600 000	1971
1972	---	240 ON MAY 18	14.0 ON SEP 22	1 790 000	1972
1973	---	62.8B ON APR 5	8.50 ON SEP 7	852 000	1973
1974	422 AT 23:35 CST ON APR 24	419 ON APR 25	14.9 B ON FEB 1	3 300 000	1974
1975	271 AT 04:00 CST ON MAY 25	271 ON MAY 25	25.5 B ON DEC 2	3 200 000	1975
1976	814 AT 08:00 CST ON APR 25 *	814 ON APR 25	12.5 B ON DEC 4	3 750 000	1976
1977	---	58.3B ON APR 13	8.85 ON AUG 27	617 000	1977
1978	---	142 B ON APR 21	7.53 B ON NOV 16	882 000	1978
1979	309 B AT 14:15 CST ON APR 24	270 B ON APR 24	9.03 B ON NOV 12	2 230 000	1979
1980	142 B AT 18:32 CST ON APR 17	99.8B ON APR 17	8.71 B ON NOV 16	854 000	1980
1981	---	61.6B ON APR 2	5.91 ON AUG 23	537 000	1981
1982	264 AT 04:35 CST ON APR 18	214 B ON APR 18	11.2 ON SEP 13	1 140 000	1982
1983	226 AT 11:15 CST ON APR 19	213 ON APR 18	12.1 B ON NOV 27	1 740 000	1983
1984	145 AT 21:32 CST ON APR 7	98.3 ON APR 8	6.71 ON SEP 2	893 000	1984
1985	238 B AT 18:52 CST ON APR 11	196 B ON APR 11	7.87 ON AUG 2	1 370 000	1985
1986	331 AT 22:48 CST ON APR 4	267 ON APR 5	9.01 ON OCT 2	1 680 000	1986
1987	271 B AT 16:01 CST ON APR 9	246 B ON APR 9	8.62 B ON NOV 27	1 130 000	1987
1988	84.5 AT 09:52 CST ON MAY 20	83.9 ON MAY 20	3.83 B ON DEC 17	685 000	1988
				1 480 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER AT ST. JAMES - STATION NO. 05MJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	178	188	80.2	80.3	87.8	130	---	---	---	1912
1913	---	---	---	283	337	141	118	113	---	---	---	---	---	1913
MEAN	---	---	---	283	258	165	99.1	86.7	87.8	130	---	---	---	MEAN

LOCATION - LAT 49 52 30 N DRAINAGE AREA, 154 000 km^2
LONG 97 11 30 W NATURAL FLOW

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	12.4	12.4	17.3	147	210	177	91.6	54.2	38.0	31.9	26.9	26.6	70.7	1974
1975	25.0	24.6	23.6	78.7	196	126	75.6	57.1	63.3	59.5	48.1	33.3	67.8	1975
1976	28.9	27.3	18.2	335	227	122	56.0	52.6	22.3	21.2	20.2	17.7	82.2	1976
1977	16.0	13.7	11.7	16.2	14.5	11.0	12.6	9.91	8.75	12.5	15.7	16.8	13.6	1977
1978	16.9	17.2	20.5	50.6	28.3	11.6	8.67	4.11	5.66	7.38	13.2	11.3	16.3	1978
1979	11.0	11.0	16.7	105	214	120	60.0	14.3	9.51	11.1	14.8	17.6	50.9	1979
1980	17.9	17.1	17.2	43.6	13.2	7.81	8.30	8.75	10.6	11.3	14.5	12.9	15.2	1980
1981	11.8	12.8	18.9	13.5	8.38	8.64	4.88	3.72	4.48	10.2	14.8	12.5	10.4	1981
1982	11.4	11.7	9.89	55.2	43.0	26.7	8.80	8.40	4.44	8.86	15.1	16.3	16.0	1982
1983	18.3	18.4	20.2	98.7	97.7	58.6	24.9	30.6	11.1	13.4	21.9	15.5	38.0	1983
1984	16.8	16.2	14.2	17.3	10.6	12.9	21.1	5.18	4.83	8.17	16.0	16.1	13.9	1984
1985	17.8	16.1	34.9	83.4	81.2	42.1	13.5	13.6	17.5	18.9	28.4	25.3	32.2	1985
1986	22.3	21.6	43.7	116	101	38.3	14.4	10.2	7.73	12.4	17.2	16.1	35.2	1986
1987	17.5	16.7	19.6	108	24.3	14.4	12.8	9.80	9.82	13.0	15.5	14.7	22.8	1987
1988	10.1	7.42	7.39	34.3	84.5	48.3	23.1	8.14	5.10	3.82	5.70	4.86	18.6	1988
MEAN	17.3	16.5	19.6	87.6	87.6	55.0	31.6	18.3	14.8	16.4	19.5	17.7	33.8	MEAN

LOCATION - LAT 49 52 20 N, LONG 100 08 10 W DRAINAGE AREA, 85 900 km² REGULATED

ASSINIBOINE RIVER NEAR BRANDON - STATION NO. 05MH013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	308 A ON APR 22	12.2 B ON FEB 22	2 230 000	1974
1975	282 AT 16:38 CST ON MAY 1 *	281 ON MAY 1	17.5 B ON APR 12	2 140 000	1975
1976	---	617 ON APR 18 *	15.2 B ON MAR 28	2 600 000	1976
1977	20.9 AT 23:31 CST ON APR 14	20.7 ON APR 14	7.26 ON SEP 4	428 000	1977
1978	66.3 AT 20:50 CST ON APR 18	63.4 ON APR 18	3.14 ON AUG 21	513 000	1978
1979	---	314 B ON APR 27	7.57 ON AUG 27	1 810 000	1979
1980	103 B AT 08:52 CST ON APR 15	85.18 ON APR 15	6.76 ON JUN 26	482 000	1980
1981	---	26.18 ON MAR 4	2.38 ON AUG 10 *	327 000	1981
1982	117 AT 12:40 CST ON APR 22	108 ON APR 22	3.85 ON SEP 26	888 000	1982
1983	191 AT 10:45 CST ON APR 26	180 ON APR 26	8.31 ON SEP 14	1 130 000	1983
1984	35.58 AT 18:00 CST ON APR 2	35.08 ON APR 3	3.09 ON SEP 6	440 000	1984
1985	156 AT 18:34 CST ON APR 11	141 ON APR 11	8.53 ON AUG 2	1 020 000	1985
1986	202 B AT 20:01 CST ON APR 3	193 B ON APR 3	8.41 ON SEP 14	1 110 000	1986
1987	226 AT 08:06 CST ON APR 11	225 ON APR 11	8.50 ON SEP 9	722 000	1987
1988	81.3 AT 19:12 CST ON MAY 18	81.0 ON MAY 18	2.82 ON NOV 2	589 000	1988
				1 060 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	9.45	35.8	21.2	8.42	4.80	4.28	5.06	5.12	---	---	---	1961
1962	---	---	3.86	59.4	66.7	26.8	14.8	19.1	10.9	10.2	---	---	---	1962
1963	---	---	16.5	66.5	32.6	52.5	27.8	14.1	11.1	10.4	---	---	---	1963
1964	---	---	6.56	63.3	87.9	26.1	19.9	9.82	13.9	10.8	---	---	---	1964
1965	---	---	5.85	154	107	78.0	61.3	30.0	33.5	34.9	---	---	---	1965
1966	---	---	39.5	155	178	68.9	40.8	21.0	15.2	9.34	---	---	---	1966
1967	---	---	7.75	105	182	63.8	17.6	8.08	5.30	7.20	7.88	7.28	---	1967
1968	7.85	7.58	24.0	79.8	28.0	18.1	11.3	18.1	20.6	16.3	12.7	7.49	20.6	1968
1969	6.16	7.34	8.99	338	292	130	91.8	44.3	19.4	16.0	16.0	17.8	82.8	1969
1970	16.3	15.6	17.2	158	315	193	116	55.5	24.1	19.7	28.9	19.0	81.9	1970
1971	16.3	15.9	17.3	108	133	123	79.0	41.5	15.5	24.7	39.9	29.1	53.6	1971
1972	25.2	26.1	66.3	201	223	107	49.1	18.9	14.9	18.1	22.6	21.6	66.1	1972
1973	22.2	18.6	25.7	27.4	23.0	26.9	21.1	14.1	18.1	26.6	19.2	16.6	21.4	1973
1974	15.5	15.9	22.0	324	464	345	163	74.2	48.0	43.9	41.7	35.8	132	1974
1975	31.2	27.9	28.6	127	449	333	161	84.8	85.0	104	74.7	56.5	133	1975
1976	44.8	36.1	35.6	908	588	255	156	82.8	40.0	29.5	22.8	19.8	184	1976
1977	21.7	18.8	20.8	28.8	27.8	19.5	23.5	16.2	17.0	16.4	17.9	20.8	21.1	1977
1978	19.2	19.7	25.0	97.5	63.4	22.5	20.1	13.8	13.4	11.7	19.3	13.0	27.3	1978
1979	17.9	17.4	24.8	223	389	281	118	30.0	13.6	13.4	21.1	16.4	98.1	1979
1980	19.2	18.5	16.9	51.3	21.0	14.4	14.0	17.6	16.3	19.4	22.3	16.8	20.7	1980
1981	17.0	17.9	30.9	24.0	17.0	15.7	11.0	10.0	11.7	15.8	18.3	15.0	17.0	1981
1982	15.5	14.3	12.4	115	109	58.6	15.9	13.8	12.2	16.4	25.1	21.9	36.2	1982
1983	24.6	22.0	32.5	225	187	85.0	37.7	43.8	29.0	25.2	33.9	20.5	83.9	1983
1984	21.2	19.7	20.3	31.6	36.6	35.2	31.0	10.5	8.11	15.5	17.1	22.7	22.5	1984
1985	17.9	19.0	65.7	135	83.5	51.3	19.9	21.9	28.2	30.1	34.7	26.7	48.3	1985
1986	27.3	26.3	65.7	168	184	63.4	27.9	20.1	13.1	24.2	27.3	23.1	54.2	1986
1987	21.3	21.6	39.0	218	82.5	26.2	22.3	22.0	17.6	20.9	20.4	17.0	42.1	1987
1988	11.3	8.12	12.8	40.1	89.0	52.8	32.4	11.3	9.81	8.46	7.32	8.57	22.8	1988
MEAN	20.0	18.7	25.2	183	157	92.5	50.6	27.8	20.3	21.6	25.1	20.6	58.3	MEAN

LOCATION - LAT 49 41 54 N, LONG 98 53 58 W DRAINAGE AREA, 152 000 km² REGULATED

ASSINIBOINE RIVER NEAR HOLLAND - STATION NO. 05MH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	57.2 B ON APR 10	---	---	1961
1962	---	184 B ON APR 20	---	---	1962
1963	---	107 B ON APR 8	---	---	1963
1964	---	144 E ON APR 20	---	---	1964
1965	---	378 B ON APR 14	---	---	1965
1966	---	224 ON MAY 9	---	---	1966
1967	---	219 B ON APR 22	---	---	1967
1968	---	105 ON APR 13	5.74B ON DEC 31	650 000	1968
1969	---	694 A ON APR 24	5.38B ON JAN 30	2 610 000	1969
1970	---	501 ON APR 28	14.7 B ON MAR 2	2 580 000	1970
1971	195 AT 23:00 CST ON APR 17	193 ON APR 16	10.8 B ON NOV 8	1 680 000	1971
1972	---	314 ON APR 21	13.3 ON SEP 17	2 080 000	1972
1973	---	56.4B ON APR 1	10.6 ON AUG 28	675 000	1973
1974	926 AT 05:05 CST ON APR 22	809 ON APR 22	13.5 B ON JAN 27	4 170 000	1974
1975	515 AT 20:00 CST ON MAY 1	498 E ON MAY 1	24.6 B ON FEB 18	4 200 000	1975
1976	1 470 AT 02:00 CST ON APR 20 *	1 460 ON APR 20 *	12.7 B ON NOV 30	5 830 000	1976
1977	80.6 AT 09:45 CST ON JUL 13	42.2 ON JUL 13	10.4 B ON NOV 22	868 000	1977
1978	---	154 B ON APR 10	10.6 ON OCT 23	882 000	1978
1979	861 A AT 10:45 CST ON APR 24	846 A ON APR 24	10.2 ON OCT 8	3 100 000	1979
1980	99.9 AT 18:00 CST ON APR 17	97.5 ON APR 17	9.21B ON DEC 21	856 000	1980
1981	---	41.8B ON MAR 22	8.20 ON AUG 22	536 000	1981
1982	---	239 A ON APR 16	10.8 B ON MAR 23	1 140 000	1982
1983	---	334 A ON APR 11	13.8 B ON DEC 19	2 020 000	1983
1984	84.1B AT 15:15 CST ON APR 6	56.1B ON APR 5	6.84 ON AUG 27	710 000	1984
1985	277 B AT 20:52 CST ON APR 3	247 B ON MAR 28	9.73B ON FEB 1	1 430 000	1985
1986	274 AT 15:44 CST ON APR 5	264 ON APR 5	12.1 ON SEP 19	1 710 000	1986
1987	477 B AT 11:04 CST ON APR 6	333 B ON APR 7	8.57 ON NOV 21	1 330 000	1987
1988	84.9 AT 18:08 CST ON MAY 17	84.8 ON MAY 19	4.00B ON NOV 15 *	712 000	1988
				1 870 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.72	10.3	8.23	3.45	1.36	0.496	0.854	1.96	---	---	---	1961
1962	---	---	2.02	31.3	32.6	8.93	3.69	3.00	3.59	3.55	---	---	---	1962
1963	---	---	5.30	27.3	15.5	17.9	13.6	5.92	5.06	3.99	---	---	---	1963
1964	---	---	2.91	44.4	37.7	10.1	5.02	3.20	2.96	3.81	---	---	---	1964
1965	---	---	1.75	73.5	44.7	43.4	15.1	7.05	7.79	8.08	---	---	---	1965
1966	---	---	3.58	103	80.9	26.3	23.8	10.2	4.65	2.06	---	---	---	1966
1967	---	---	3.31	49.8	84.4	27.5	8.49	3.07	1.80	3.19	---	---	---	1967
1968	---	---	8.22	42.9	12.0	6.41	4.10	4.95	2.54	1.87	---	---	---	1968
1969	---	---	3.57	92.0	57.1	29.4	25.5	8.51	7.00	9.82	---	---	---	1969
1970	---	---	9.22	80.0	108	51.0	38.9	23.4	9.39	12.1	---	---	---	1970
1971	---	---	9.85	50.3	55.7	43.6	22.4	13.3	4.46	13.1	---	---	---	1971
1972	---	---	22.4	80.2	85.7	58.2	8.52	5.85	6.53	10.1	---	---	---	1972
1973	---	---	11.7	9.26	6.70	8.69	6.86	4.17	7.89	11.6	12.3	12.2	---	1973
1974	12.9	13.1	18.7	97.8	151	135	80.7	46.5	33.2	30.1	29.8	27.0	66.5	1974
1975	24.4	23.0	23.5	55.7	144	97.1	65.0	47.0	35.9	30.2	34.9	32.0	51.3	1975
1976	26.6	23.5	14.6	230	147	102	77.3	44.2	18.5	20.5	19.3	16.6	61.6	1976
1977	15.3	10.8	11.2	11.0	8.49	7.20	8.64	7.85	5.87	8.13	17.0	14.3	10.5	1977
1978	12.9	14.5	18.4	35.6	13.9	7.03	4.82	2.74	4.58	7.56	17.0	10.4	12.4	1978
1979	8.83	10.1	27.7	105	136	89.0	50.0	9.36	8.79	11.2	12.3	15.3	40.5	1979
1980	17.4	15.3	15.3	33.4	7.08	6.11	7.19	6.61	6.41	8.89	15.5	13.6	12.7	1980
1981	8.38	10.6	10.6	7.95	3.75	3.85	1.69	1.85	3.39	9.24	13.3	8.48	7.04	1981
1982	10.4	8.40	8.48	31.4	32.6	20.9	5.19	4.77	3.81	10.5	13.8	14.2	13.5	1982
1983	16.7	15.6	21.1	58.4	74.5	47.1	22.3	27.4	9.63	13.9	21.4	17.0	28.8	1983
1984	16.7	15.0	17.1	12.7	6.81	11.2	16.5	3.54	4.28	9.02	18.1	17.3	12.5	1984
1985	16.8	19.1	27.2	83.6	52.3	37.0	10.8	9.46	13.9	15.0	28.0	22.9	27.9	1985
1986	21.3	20.5	44.6	74.8	58.1	25.3	9.32	9.71	7.71	10.8	18.0	16.5	26.5	1986
1987	15.3	16.0	13.4	53.1	12.0	12.1	11.6	9.27	9.79	11.8	14.0	11.4	15.7	1987
1988	8.98	5.83	5.57	28.6	53.1	46.1	18.4	9.09	6.23	4.19	5.91	5.37	16.4	1988
MEAN	15.6	14.7	13.0	56.9	55.3	35.0	20.2	11.9	8.45	10.2	16.2	15.0	28.3	MEAN

LOCATION - LAT 50 05 39 N
LONG 101 02 08 W
DRAINAGE AREA, 76 100 km^2
REGULATED

ASSINIBOINE RIVER NEAR MINIOTA - STATION NO. 05ME005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	12.58 ON APR 8	---	---	1961
1962	---	89.8 ON APR 26	---	---	1962
1963	---	36.0 ON JUN 11	---	---	1963
1964	---	79.98 ON APR 17	---	---	1964
1965	---	150 B ON APR 20	---	---	1965
1966	---	146 ON APR 29	---	---	1966
1967	---	112 ON MAY 13	---	---	1967
1968	---	84.6 ON APR 15	---	---	1968
1969	---	278 ON APR 15	---	---	1969
1970	---	162 ON MAY 3	---	---	1970
1971	---	112 B ON APR 14	---	---	1971
1972	---	173 B ON APR 19	---	---	1972
1973	15.18 AT 17:47 CST ON MAR 31	14.69 ON MAR 31	---	---	1973
1974	373 AT 11:52 CST ON APR 22	270 ON APR 22	12.5 B ON FEB 2	1 780 000	1974
1975	174 AT 17:15 CST ON MAY 21	174 ON MAY 21	12.7 B ON APR 11	1 820 000	1975
1976	462 AT 23:09 CST ON APR 11 *	447 ON APR 12 *	13.4 B ON MAR 4	1 950 000	1976
1977	22.9 AT 08:00 CST ON NOV 10	22.5 ON NOV 9	4.78 ON JUL 20	331 000	1977
1978	---	51.58 ON APR 10	3.38 ON AUG 14	380 000	1978
1979	279 AT 14:42 CST ON APR 24	264 ON APR 24	8.15 ON AUG 23	1 280 000	1979
1980	---	59.28 ON APR 11	3.50 ON MAY 28	401 000	1980
1981	17.4 AT 14:13 CST ON APR 1	17.0 ON APR 2	0.885 ON JUL 29 *	222 000	1981
1982	---	67.38 ON APR 18	3.68 ON SEP 7	426 000	1982
1983	145 AT 22:05 CST ON APR 24	144 ON APR 24	7.63 ON SEP 10	906 000	1983
1984	31.88 AT 23:53 CST ON MAR 29	31.78 ON MAR 29	2.38 ON AUG 30	395 000	1984
1985	142 AT 15:50 CST ON APR 10	135 ON APR 10	6.81 ON AUG 8	882 000	1985
1986	183 B AT 21:37 CST ON APR 3	180 B ON APR 4	7.26 ON SEP 18	836 000	1986
1987	159 AT 14:55 CST ON APR 8	156 A ON APR 9	7.03 B ON MAR 18	497 000	1987
1988	63.5 AT 16:04 CST ON MAY 9	63.0 ON MAY 9	3.06 B ON OCT 28	517 000	1988
				829 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	485	186	150	105	48.6	38.8	31.2	---	---	1923
1924	---	---	---	---	127	84.8	84.7	31.2	25.2	26.9	---	---	---	1924
1925	---	---	---	282	195	125	81.4	28.4	18.3	25.9	---	---	---	1925
1926	---	---	---	61.5	59.1	38.3	27.3	14.8	24.8	25.7	20.1	---	---	1926
1927	---	---	---	215	460	268	156	79.2	56.4	58.5	---	---	---	1927
1928	---	---	---	---	161	126	148	84.1	27.4	24.1	---	---	---	1928
1929	---	---	---	---	79.8	54.9	30.1	13.1	9.27	10.8	---	---	---	1929
1930	---	---	---	---	80.3	47.1	31.2	13.8	9.26	---	---	---	---	1930
1952	---	---	---	---	---	---	---	---	---	13.8	11.4	8.27	---	1952
1953	5.87	6.36	6.86	119	104	158	152	122	54.4	32.0	40.8	18.8	58.7	1953
1954	15.8	13.5	15.8	88.7	148	198	321	131	62.3	88.4	72.1	41.0	89.8	1954
1955	27.8	24.8	20.8	342	487	337	181	83.7	55.8	50.8	28.3	26.6	139	1955
1956	18.4	16.4	19.1	228	483	387	203	80.4	58.7	38.0	34.7	24.7	134	1956
1957	18.5	12.3	30.9	128	217	84.0	43.7	29.8	24.0	21.2	23.0	16.7	64.3	1957
1958	8.39	8.88	13.2	95.4	37.4	18.8	14.8	8.87	7.88	10.3	10.7	4.29	19.8	1958
1959	4.16	4.35	10.7	72.5	37.2	23.0	20.0	9.06	8.47	17.8	21.8	10.1	19.8	1959
1960	10.4	10.2	8.16	274	193	97.3	38.5	12.8	8.81	10.0	7.86	4.32	58.2	1960
1961	4.88	5.29	10.7	41.0	23.4	11.4	5.85	3.41	4.82	8.64	8.87	3.19	10.9	1961
1962	3.84	3.84	4.25	66.1	84.6	27.8	12.8	15.6	11.3	9.84	10.1	4.89	19.8	1962
1963	1.87	0.885	4.49	73.9	37.8	57.7	33.0	18.1	11.5	11.0	8.58	5.80	21.9	1963
1964	5.33	6.18	8.55	86.9	92.7	31.0	17.0	9.78	10.8	12.4	9.26	5.32	24.4	1964
1965	6.05	5.20	5.97	144	108	80.5	59.2	30.1	31.0	36.0	18.3	15.7	45.2	1965
1966	13.4	10.9	38.4	154	171	70.1	43.6	22.4	16.9	10.5	8.27	5.68	47.3	1966
1967	8.87	8.93	8.01	98.1	181	89.4	19.1	8.30	5.07	7.73	8.19	8.64	33.9	1967
1968	6.82	7.08	15.0	78.9	31.6	17.5	12.3	15.8	20.9	15.7	13.7	8.50	20.2	1968
1969	4.42	7.02	8.83	336	295	132	95.8	45.5	21.0	19.4	19.1	16.9	83.6	1969
1970	15.5	14.4	16.4	108	265	187	121	58.8	25.3	28.4	27.0	17.1	74.0	1970
1971	15.1	14.8	16.8	95.4	127	115	79.4	44.5	17.8	29.8	34.4	28.6	51.9	1971
1972	26.0	24.8	45.3	94.8	221	107	52.8	22.0	15.7	23.2	23.9	20.3	58.5	1972
1973	22.9	18.2	23.0	29.3	16.3	23.4	20.8	14.1	15.4	31.6	19.4	16.6	20.9	1973
1974	16.1	17.2	20.5	140	343	301	144	71.4	45.6	42.3	40.9	35.5	102	1974
1975	31.3	29.1	29.8	66.0	280	247	168	84.0	74.0	101	72.0	58.8	102	1975
1976	46.4	39.0	34.9	334	367	241	151	83.7	46.2	31.3	22.7	18.2	118	1976
1977	21.7	19.0	19.6	28.0	24.8	16.5	21.8	16.6	17.3	18.6	19.2	20.5	20.5	1977
1978	18.8	19.8	24.4	93.0	55.2	27.7	22.7	16.4	15.3	17.2	16.5	13.6	28.3	1978
1979	14.1	15.5	14.9	93.0	239	236	119	38.9	22.6	16.2	20.7	20.6	71.3	1979
1980	21.8	20.7	20.4	49.6	25.2	12.5	11.4	15.3	19.2	21.4	20.5	21.9	21.8	1980
1981	16.1	16.6	26.9	22.1	18.6	17.1	13.8	11.4	19.9	19.1	17.0	11.8	17.6	1981
1982	14.3	13.4	11.2	105	119	73.8	23.5	16.1	17.4	20.1	24.3	20.9	38.2	1982
1983	23.9	23.6	29.3	140	178	87.7	39.6	40.5	31.9	25.1	30.1	23.9	56.1	1983
1984	21.6	20.7	20.0	30.9	34.6	36.6	30.0	12.9	10.1	15.9	23.6	18.8	22.9	1984
1985	20.6	21.0	42.6	133	87.2	82.6	22.7	24.6	33.7	34.4	40.6	33.1	46.3	1985
1986	27.8	28.7	51.3	158	180	88.1	29.8	24.0	21.2	19.3	20.4	22.4	51.8	1986
1987	19.4	21.1	24.8	137	85.3	26.3	23.7	24.8	22.8	21.3	19.9	15.7	35.3	1987
MEAN	15.9	15.0	20.0	127	181	107	71.1	37.9	25.7	28.6	23.7	17.9	62.4	MEAN

LOCATION - LAT 49 56 00 N LONG 98 18 48 W DRAINAGE AREA, 152 000 km^2 REGULATED

ASSINIBOINE RIVER NEAR PORTAGE LA PRAIRIE - STATION NO. 05MJ003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	626 ON MAY 10	---	---	1923
1924	---	---	---	---	1924
1925	---	334 ON APR 7	---	---	1925
1926	---	121 ON APR 26	---	---	1926
1927	---	578 ON MAY 13	---	---	1927
1928	---	---	---	---	1928
1929	---	121 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1952	---	---	---	---	1952
1953	---	297 ON JUN 7	5.27 B ON JAN 20	2 170 000	1953
1954	---	425 ON JUL 13	11.8 B ON FEB 10	3 140 000	1954
1955	---	529 ON MAY 24	13.0 B ON NOV 19	4 400 000	1955
1956	---	537 B ON APR 21	14.4 B ON JAN 30	4 220 000	1956
1957	---	238 ON MAY 9	10.2 B ON DEC 31	1 710 000	1957
1958	---	158 ON APR 8	2.84 B ON DEC 15	827 000	1958
1959	---	185 B ON APR 10	3.60 B ON JAN 27	827 000	1959
1960	592 AT 18:00 CST ON APR 15	586 ON APR 15	3.37 B ON DEC 6	1 780 000	1960
1961	78.6 AT 13:45 CST ON APR 16	62.3 ON APR 15	2.29 B ON DEC 16	344 000	1961
1962	295 B AT 20:45 CST ON APR 20	199 B ON APR 21	3.37 B ON JAN 30	618 000	1962
1963	147 B ON APR 11	131 B ON APR 10	0.7068 ON JAN 21 *	689 000	1963
1964	---	162 ON APR 21	4.81 B ON JAN 1	772 000	1964
1965	504 B AT 07:30 CST ON APR 16	439 B ON APR 16	4.67 B ON APR 3	1 420 000	1965
1966	---	229 B ON APR 7	4.87 B ON DEC 6	1 490 000	1966
1967	---	223 A ON APR 24	4.84 ON SEP 8	1 070 000	1967
1968	---	102 B ON APR 8	4.62 B ON DEC 28	638 000	1968
1969	881 AT 11:10 CST ON APR 24	626 ON APR 24	3.74 B ON JAN 13	2 630 000	1969
1970	343 AT 07:42 CST ON MAY 18	340 ON MAY 17	13.8 B ON JAN 30	2 330 000	1970
1971	178 AT 18:30 CST ON JUN 18	170 ON JUN 19	12.9 B ON FEB 4	1 640 000	1971
1972	---	242 ON MAY 14	12.5 B ON NOV 17	1 790 000	1972
1973	---	62.09 ON APR 2	9.94 ON AUG 26	659 000	1973
1974	386 B AT 10:00 CST ON APR 22	360 ON APR 23	14.2 B ON JAN 29	3 210 000	1974
1975	276 AT 21:30 CST ON MAY 23	273 ON MAY 23	26.2 B ON JAN 29	3 230 000	1975
1976	682 AT 16:30 CST ON APR 21 *	668 ON APR 21 *	12.1 B ON DEC 2	3 730 000	1976
1977	67.7 AT 16:30 CST ON JUL 14	49.8 ON JUL 15	10.8 ON AUG 25	845 000	1977
1978	---	154 B ON APR 10	10.7 B ON NOV 15	894 000	1978
1979	362 B AT 13:41 CST ON APR 25	326 B ON APR 25	9.88 B ON MAR 12	2 260 000	1979
1980	137 AT 18:38 CST ON APR 14	98.0 ON APR 14	8.86 ON NOV 14	683 000	1980
1981	88.1 AT 17:44 CST ON SEP 14	47.0 ON SEP 14	1.75 B ON DEC 4	583 000	1981
1982	205 AT 08:32 CST ON APR 25	202 ON APR 25	9.96 B ON MAR 11	1 210 000	1982
1983	205 AT 08:25 CST ON APR 28	204 ON APR 28	15.6 B ON NOV 24	1 770 000	1983
1984	86.68 AT 13:21 CST ON APR 6	74.79 ON APR 7	6.57 ON AUG 30	723 000	1984
1985	187 AT 23:22 CST ON APR 14	183 ON APR 14	12.7 ON JUL 31	1 480 000	1985
1986	205 AT 22:13 CST ON APR 1	183 ON APR 9	10.0 B ON NOV 9	1 830 000	1986
1987	208 AT 04:12 CST ON APR 19	205 ON APR 19	8.65 B ON DEC 20	1 110 000	1987
				1 650 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	306	183	120	56.8	24.8	27.6	27.4	18.9	---	1970
1971	18.1	14.6	31.0	126	126	118	76.2	43.1	18.0	27.0	33.3	26.9	53.9	1971
1972	24.8	26.2	84.6	199	232	108	42.6	22.7	19.0	22.7	24.9	19.7	86.9	1972
MEAN	19.8	19.9	42.8	193	221	136	79.6	41.5	20.5	26.8	28.5	21.2	80.4	MEAN

LOCATION - LAT 49 45 32 N, LONG 98 38 32 W DRAINAGE AREA, 152 000 km^2, REGULATED

ASSINIBOINE RIVER NEAR ROSSENDALE - STATION NO. 05MJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	1970
1971	---	198 ON APR 18	13.78 ON FEB 3 *	1 700 000	1971
1972	---	328 ON APR 22 *	18.18 ON DEC 29	2 110 000	1972
				1 910 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05MH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	1.55	2.83	138	128	62.5	98.6	72.2	29.9	16.9	14.3	5.00	---	1913
1914	2.85	2.88	3.91	49.2	103	33.5	10.2	3.66	3.34	4.06	3.71	2.09	19.8	1914
1915	1.27	1.76	1.84	16.7	7.00	7.28	10.5	4.23	3.38	3.95	3.88	2.12	5.31	1915
1916	1.42	1.42	1.27	40.8	23.8	61.6	28.4	11.1	7.85	9.88	9.37	3.18	15.8	1916
1917	1.31	1.07	1.47	25.2	112	31.2	42.4	10.8	7.80	4.86	5.14	1.87	20.5	1917
1918	1.86	1.41	4.20	30.6	12.8	13.5	15.2	9.78	6.63	6.27	5.64	3.08	9.22	1918
1919	2.36	2.15	1.88	27.4	19.9	11.3	28.0	8.19	7.60	8.46	4.88	2.88	10.6	1919
1920	2.65	2.66	2.79	36.0	152	36.8	11.2	5.70	4.71	5.29	7.29	3.72	22.7	1920
1921	2.43	2.18	2.76	86.8	91.6	76.0	88.5	36.6	29.8	41.4	42.6	14.9	43.1	1921
1922	8.15	6.20	5.46	185	323	95.2	24.3	12.6	9.84	8.14	9.15	4.67	57.7	1922
1923	3.81	3.72	3.60	68.6	167	58.6	57.7	24.1	9.30	8.88	8.72	4.19	35.8	1923
1924	2.62	2.30	2.78	21.8	25.9	16.4	9.56	13.7	6.20	9.18	8.42	4.07	10.3	1924
1925	3.00	2.44	3.63	108	33.2	30.6	21.0	7.76	6.17	5.87	4.15	2.83	19.0	1925
1926	1.71	1.78	3.59	51.5	23.8	14.6	6.13	3.26	5.73	11.0	9.71	3.95	11.8	1926
1927	3.10	2.84	2.62	118	134	49.9	33.8	18.4	18.8	20.4	11.8	5.21	35.1	1927
1928	3.71	2.96	23.6	87.2	46.9	30.6	36.0	10.5	6.89	6.62	3.01	2.48	21.4	1928
1929	2.21	1.81	2.27	30.3	23.2	12.1	8.70	3.88	3.24	3.86	3.98	3.14	8.05	1929
1930	2.04	1.82	2.78	26.9	14.3	10.5	8.72	3.34	2.85	3.38	3.27	2.15	8.88	1930
1931	1.87	1.67	2.63	24.5	8.90	4.83	3.63	2.82	2.71	3.08	2.89	0.921	4.80	1931
1932	0.850	1.08	1.32	25.3	10.2	5.82	7.44	4.04	3.35	---	---	---	---	1932
1942	---	---	---	---	---	---	8.95	8.82	8.16	---	---	---	---	1942
1943	---	---	---	---	22.4	17.3	8.32	3.93	2.84	2.83	---	---	---	1943
1944	---	---	---	---	8.70	4.92	3.24	1.54	2.35	2.40	---	---	---	1944
1945	---	---	---	18.1	18.8	8.97	8.31	3.52	3.20	4.15	---	---	---	1945
1946	---	---	---	39.8	12.3	6.47	7.09	2.10	1.88	3.54	---	---	---	1946
1947	---	---	---	---	51.4	28.1	35.1	7.51	7.34	7.47	---	---	---	1947
1948	---	---	---	---	157	18.8	18.4	13.1	4.42	3.28	---	---	---	1948
1949	---	---	---	14.2	8.82	13.9	8.25	4.72	2.46	2.71	---	---	---	1949
1950	---	---	---	---	29.0	12.0	8.68	7.26	3.10	4.07	3.92	2.14	---	1950
1951	1.50	1.84	1.60	36.4	57.2	14.7	8.47	6.56	8.88	13.4	10.1	4.00	13.9	1951
1952	1.92	1.69	1.98	54.8	21.6	8.87	4.77	2.76	3.42	3.57	2.46	1.82	9.12	1952
1953	1.52	1.74	2.86	34.6	28.1	23.6	76.5	44.7	20.8	12.8	12.4	5.85	23.1	1953
1954	3.81	3.09	3.12	39.1	84.6	129	92.9	16.6	19.6	23.8	22.5	8.80	37.3	1954
1955	3.69	3.34	3.24	114	171	88.9	22.0	9.80	4.12	4.82	4.52	2.81	34.4	1955
1956	3.15	1.48	2.78	28.0	167	81.0	25.1	10.5	7.29	6.11	7.58	3.98	28.9	1956
1957	3.09	4.51	5.27	47.8	94.3	14.3	6.84	3.81	2.83	3.10	2.82	2.17	16.0	1957
1958	1.65	1.84	2.51	16.8	6.54	3.32	2.18	1.33	2.26	2.42	3.07	1.57	3.80	1958
1959	1.44	1.10	3.03	23.5	10.4	7.03	7.26	2.34	2.49	3.93	4.80	3.44	5.88	1959
1960	2.48	1.78	2.82	62.6	47.7	22.0	7.75	1.80	1.13	1.76	1.71	1.29	12.8	1960
1961	1.22	1.08	2.13	4.84	4.83	2.35	0.957	0.352	0.582	1.56	1.51	1.42	1.81	1961
1962	0.966	0.586	2.25	28.0	24.1	5.06	1.61	1.28	1.69	1.61	2.13	2.11	5.85	1962
1963	0.966	0.914	3.55	16.6	7.21	5.47	4.82	1.71	1.52	2.41	1.76	1.48	4.03	1963
1964	1.70	1.78	2.50	12.0	11.9	3.71	1.56	1.48	1.07	2.10	2.32	1.47	3.64	1964
1965	1.35	1.27	1.41	35.3	23.3	29.4	9.73	4.57	3.55	4.78	3.06	2.30	9.96	1965
1966	2.65	2.04	2.93	67.6	52.6	18.0	15.8	7.49	3.41	3.45	3.00	2.30	16.2	1966
1967	2.32	1.70	2.33	12.5	57.3	14.1	3.82	1.81	0.510	1.22	1.74	1.48	8.47	1967
1968	1.26	1.48	5.78	23.2	5.45	3.80	2.33	1.70	0.233	0.235	0.367	0.550	3.83	1968
1969	0.616	0.766	0.917	14.1	15.8	2.02	2.00	2.09	1.84	1.78	3.86	4.44	4.26	1969
1970	4.17	3.69	3.82	21.8	48.5	15.7	10.3	4.03	2.56	1.83	2.85	3.80	10.3	1970
1971	3.61	3.58	3.77	5.77	16.5	6.45	12.8	7.84	1.73	4.49	11.7	12.8	7.83	1971
1972	12.6	13.5	13.4	13.8	78.3	46.9	2.91	2.26	3.88	5.23	13.5	15.0	18.4	1972
1973	12.6	8.35	6.81	1.75	1.53	1.39	1.30	1.60	4.37	8.34	9.77	9.45	5.40	1973
1974	8.86	8.90	20.4	28.1	80.7	58.4	48.2	13.9	6.01	8.03	11.8	13.8	23.4	1974
1975	13.4	13.3	13.1	8.80	56.1	40.3	38.8	27.7	7.82	8.86	18.7	18.7	22.2	1975
1976	18.4	18.0	7.15	38.5	51.7	45.8	43.3	22.0	7.52	7.35	8.36	8.51	23.0	1976
1977	7.55	5.13	4.06	1.70	1.88	2.38	3.97	5.77	3.84	3.63	12.3	11.8	5.33	1977
1978	12.1	12.9	8.88	4.56	1.19	0.783	0.605	1.36	3.23	4.90	8.44	5.14	5.37	1978
1979	8.15	8.92	24.3	30.8	53.3	50.3	38.7	5.08	6.31	7.53	10.8	11.4	21.5	1979
1980	11.3	10.6	12.4	6.04	1.50	5.13	5.13	4.85	4.36	4.31	8.05	7.82	6.74	1980
1981	7.09	7.41	2.73	1.78	0.651	0.888	0.882	0.777	2.68	5.57	6.48	7.83	3.85	1981
1982	8.01	8.85	2.35	2.22	0.811	0.897	0.859	0.738	0.878	1.24	7.87	11.2	3.08	1982
1983	10.2	9.02	15.3	7.27	36.8	30.2	15.1	18.3	3.70	8.22	13.2	11.8	14.8	1983
1984	12.6	10.3	5.48	1.19	1.02	10.8	17.8	3.98	4.28	7.84	10.1	12.7	8.15	1984
1985	13.8	17.8	17.5	18.0	41.7	27.1	4.87	4.50	5.85	5.43	17.5	15.5	15.8	1985
1986	15.6	14.8	16.3	26.8	33.3	15.8	3.17	5.82	5.49	5.88	13.7	14.2	14.2	1986
1987	12.2	9.18	3.80	11.4	6.56	8.71	8.31	7.89	8.43	8.45	8.88	8.98	8.54	1987
1988	8.28	4.81	1.83	19.9	42.3	43.9	12.3	8.44	4.58	3.19	5.32	5.53	13.4	1988
MEAN	5.06	4.85	5.28	38.8	48.9	24.3	18.1	8.73	5.75	6.21	7.84	5.79	14.8	MEAN

LOCATION - LAT 50 46 35 N DRAINAGE AREA, 19 300 km²
LONG 101 28 10 W REGULATED SINCE 1969

REMARKS - DISCHARGE RECORDS PRIOR TO JAN 1958 WERE COLLECTED AT MILLWOOD, APPROX. 13 km DOWNSTREAM

ASSINIBOINE RIVER NEAR RUSSELL - STATION NO. 05ME001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	360 E ON APR 24	---	---	1913
1914	---	131 ON MAY 20	0.5668 ON DEC 29	547 000	1914
1915	---	34.0 ON APR 17	1.27 B ON JAN 1	187 000	1915
1916	---	83.0 ON APR 23	1.27 B ON MAR 1	484 000	1916
1917	---	180 ON MAY 18	0.8238 ON DEC 13	650 000	1917
1918	---	48.7 ON APR 5	1.06 B ON JAN 30	291 000	1918
1919	---	80.1 ON APR 20	1.42 B ON FEB 28	330 000	1919
1920	---	203 ON MAY 14	2.27 B ON MAR 3	719 000	1920
1921	---	138 ON MAY 3	2.15 B ON FEB 21	1 380 000	1921
1922	---	504 ON APR 29 *	3.74 B ON DEC 31	1 820 000	1922
1923	---	411 ON MAY 1	3.06 B ON DEC 31	1 130 000	1923
1924	---	80.7 ON APR 26	2.21 B ON JAN 23	324 000	1924
1925	---	142 ON APR 19	1.95 B ON DEC 26	588 000	1925
1926	---	79.6 ON APR 19	1.47 B ON JAN 15	261 000	1926
1927	---	357 ON APR 26	2.27 B ON MAR 5	1 110 000	1927
1928	---	132 B ON APR 13	2.27 B ON NOV 4	676 000	1928
1929	---	70.8 ON APR 28	1.84 B ON FEB 19	264 000	1929
1930	---	84.9 ON APR 13	1.25 B ON FEB 12	210 000	1930
1931	---	81.8 B ON APR 11	0.7068 ON DEC 31	151 000	1931
1932	---	83.2 B ON APR 13	0.5958 ON JAN 25	---	1932
1942	---	---	---	---	1942
1943	---	---	2.52 ON SEP 20	---	1943
1944	---	20.8 B ON APR 21	---	---	1944
1945	---	31.1 B ON APR 3	---	---	1945
1946	---	84.8 B ON APR 4	---	---	1946
1947	---	116 ON APR 23	---	---	1947
1948	---	275 ON MAY 4	---	---	1948
1949	---	82.9 RB ON APR 2	---	---	1949
1950	---	75.0 ON APR 27	---	---	1950
1951	---	76.5 ON MAY 15	0.8918 ON FEB 28	439 000	1951
1952	---	69.4 B ON APR 12	1.33 B ON FEB 6	288 000	1952
1953	---	88.1 ON JUL 17	1.27 B ON JAN 10	726 000	1953
1954	---	264 ON JUN 25	2.83 B ON JAN 31	1 180 000	1954
1955	---	273 ON MAY 15	2.21 B ON DEC 19	1 080 000	1955
1956	---	224 ON MAY 16	0.7938 ON FEB 16	913 000	1956
1957	---	170 ON MAY 3	1.90 B ON DEC 31	803 000	1957
1958	36.2 AT 15:30 CST ON APR 8	35.1 ON APR 8	0.883 ON AUG 21	120 000	1958
1959	50.7 AT 08:30 CST ON APR 8	47.0 ON APR 8	0.6238 ON FEB 19	185 000	1959
1960	128 AT 02:30 CST ON APR 29 *	128 ON APR 28	0.884 ON SEP 23	407 000	1960
1961	---	6.37 ON APR 20	0.169 ON AUG 25 *	60 100	1961
1962	---	74.2 R ON APR 24	0.1868 ON FEB 8	188 000	1962
1963	---	21.1 B ON APR 19	0.2808 ON MAR 10	127 000	1963
1964	---	19.8 B ON APR 22	0.872 ON SEP 4	115 000	1964
1965	---	75.3 ON APR 21	1.22 B ON FEB 23	315 000	1965
1966	---	116 ON APR 25	1.84 B ON FEB 2	478 000	1966
1967	---	70.2 ON MAY 15	0.215 ON SEP 5	288 000	1967
1968	---	46.4 B ON APR 14	0.184 ON SEP 15	121 000	1968
1969	---	47.3 A ON MAY 4	0.5698 ON JAN 1	135 000	1969
1970	58.5 AT 09:43 CST ON MAY 3	58.5 ON MAY 3	1.18 B ON NOV 17	324 000	1970
1971	88.5 AT 19:46 CST ON MAY 14	85.1 ON MAY 14	0.806 ON MAY 4	241 000	1971
1972	112 AT 04:22 CST ON MAY 11	111 ON MAY 10	1.02 ON APR 3	582 000	1972
1973	---	15.1 B ON JAN 15	1.17 ON JUN 13	170 000	1973
1974	71.9 AT 02:23 CST ON MAY 22	71.1 ON MAY 21	5.83 ON OCT 2	739 000	1974
1975	96.6 AT 18:46 CST ON MAY 18	96.3 ON MAY 18	2.97 B ON APR 5	700 000	1975
1976	82.4 AT 06:55 CST ON APR 26	62.1 ON APR 26	5.31 B ON MAR 15	727 000	1976
1977	13.8 AT 18:00 CST ON NOV 7	13.5 ON NOV 7	1.01 ON JUN 8	168 000	1977
1978	---	13.9 B ON FEB 6	0.184 ON AUG 9	170 000	1978
1979	79.8 AT 21:29 CST ON APR 20	86.9 ON MAY 29	3.83 ON AUG 29	676 000	1979
1980	16.9 AT 21:52 EST ON APR 5	15.7 ON APR 5	0.812 ON MAY 23	213 000	1980
1981	10.58 AT 11:35 CST ON DEC 19	10.3 B ON DEC 19	0.422 ON AUG 20	121 000	1981
1982	---	14.5 B ON DEC 10	0.5138 ON APR 3	116 000	1982
1983	39.3 AT 21:31 CST ON JUN 13	38.1 ON MAY 8	2.22 B ON MAR 7	487 000	1983
1984	25.5 AT 11:48 CST ON JUN 30	25.4 ON JUN 30	0.572 ON APR 26	256 000	1984
1985	42.7 AT 22:47 CST ON MAY 3	42.3 ON MAY 3	4.33 ON JUL 26	498 000	1985
1986	39.8 AT 08:38 CST ON MAR 30	38.2 ON MAR 30	3.03 ON JUL 22	446 000	1986
1987	33.9 AT 21:53 EST ON APR 5	29.3 ON APR 7	2.52 ON MAR 28	288 000	1987
1988	49.1 AT 00:54 CST ON MAY 18	48.3 ON MAY 18	1.05 B ON MAR 13	435 000	1988
				468 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986

BACK LAKE NEAR OXFORD HOUSE - STATION NO. 04AA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	29.4	27.6	28.4	38.0	61.5	---	---	---	---	29.7	18.0	12.2	---	1987
MEAN	29.4	27.6	28.4	38.0	61.5	---	---	---	---	29.7	18.0	12.2	---	MEAN

LOCATION - LAT 54 58 30 N
LONG 98 14 50 W NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.226	0.133	0.051	0.021	0.002	0.079	0.080	0.745	---	---	---	1959
1960	---	---	0.007	16.2	0.732	0.232	0.031	0	0	0	---	---	---	1960
1961	---	---	0.130	0.702	0.076	0.008	0	0	0	0	---	---	---	1961
1962	---	---	0	2.28	0.108	0.319	0.005	0.003	0.001	0	---	---	---	1962
1963	---	---	0.216	0.356	0.017	1.05	0.387	0.027	0	0	---	---	---	1963
1964	---	---	0	3.18	0.238	0.190	0.048	0.011	0.070	0.028	---	---	---	1964
1965	---	---	0	3.48	3.02	0.918	0.814	0.956	0.825	0.618	---	---	---	1965
1966	---	---	1.41	2.08	1.97	0.282	0.233	0.219	0.114	0.131	---	---	---	1966
1967	---	---	0.015	1.90	1.50	0.485	0	0	0	0	---	---	---	1967
1968	---	---	0.197	0.122	0.022	0.001	0	2.78	3.37	0.313	---	---	---	1968
1969	---	---	0	38.8	5.88	1.13	2.76	0.289	0.074	0.043	---	---	---	1969
1970	---	---	0	8.58	9.58	8.58	2.83	0.838	0.177	0.085	---	---	---	1970
1971	---	---	0	19.8	4.15	3.03	4.89	0.888	0.118	0.280	0.157	0.028	---	1971
1972	0.008	0	4.59	5.46	2.09	1.12	0.121	0.229	0.024	0.019	0.023	0.004	1.14	1972
1973	0	0.005	0.232	0.059	0.131	0.818	0.247	0.018	0.108	0.127	0.055	0.021	0.180	1973
1974	0.004	0.001	0.005	33.8	17.9	3.48	0.358	0.082	0.018	0.014	0.012	0.010	4.28	1974
1975	0.004	0	0.004	9.11	4.23	0.915	0.084	0.001	0.012	0.016	0.010	0.005	1.19	1975
1976	0.007	0.012	0.032	23.4	1.86	0.205	0.039	0.009	0.007	0.008	0	0	2.11	1976
1977	0	0	0.041	0.056	0.135	0.012	0.038	0.001	0.001	0.002	0.003	0.005	0.025	1977
1978	0.005	0.003	0.024	4.43	0.236	0.051	0.215	0.006	0.005	0.007	0.003	0	0.411	1978
1979	0	0	0.001	22.4	9.80	0.840	0.178	0.059	0.047	0.018	0.017	0.011	2.78	1979
1980	0.005	0.001	0.007	1.21	0.012	0.081	0.002	0.088	0.178	0.227	0.283	0.037	0.175	1980
1981	0.009	0.887	1.73	0.538	0.276	0.186	0.058	0.025	0.017	0.042	0.082	0.038	0.323	1981
1982	0.012	0.005	0.343	7.42	2.27	2.83	1.15	0.500	0.332	0.586	0.264	0.089	1.29	1982
1983	0.023	0.008	0.827	6.85	1.17	0.563	0.334	0.024	0.008	0.028	0.024	0.014	0.801	1983
1984	0.004	0.008	0.723	0.713	0.837	0.053	0.011	0.002	0	0	0.005	0.010	0.207	1984
1985	0.001	0	3.71	0.522	0.081	0.040	0.080	0.013	0.008	0.021	0.040	0.014	0.383	1985
1986	0.007	0.004	2.31	1.88	1.82	1.42	0.824	0.203	0.080	0.248	0.714	0.141	0.788	1986
1987	0.013	0.008	0.717	15.1	1.27	0.128	0.004	1.18	0.104	0.030	0.023	0.019	1.62	1987
1988	0.004	0.001	0.023	0.081	0.013	0.009	0.001	0	0	0	0	0	0.011	1988
MEAN	0.005	0.056	0.577	7.88	2.24	0.880	0.815	0.281	0.192	0.121	0.096	0.025	1.04	MEAN

LOCATION - LAT 49 05 15 N DRAINAGE AREA, 1 510 km²
LONG 99 10 22 W NATURAL FLOW

BADGER CREEK NEAR CARTWRIGHT - STATION NO. 05DA007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	2.83 ON OCT 25	0 ON MAR 1 *	---	1959
1960	---	47.0 ON APR 7	0 E ON MAR 1	---	1960
1961	---	2.12 B ON APR 4	0 B ON MAR 1	---	1961
1962	---	9.63 B ON APR 6	0 B ON MAR 1	---	1962
1963	---	5.52 ON JUN 4	0 ON MAR 1	---	1963
1964	---	15.6 B ON APR 5	0 B ON MAR 1	---	1964
1965	---	17.0 ON APR 13	0 B ON MAR 1	---	1965
1966	---	4.84 B ON MAR 31	0 B ON MAR 1	---	1966
1967	---	6.74 ON APR 27	0 B ON MAR 1	---	1967
1968	---	12.6 ON AUG 25	0 B ON MAR 1	---	1968
1969	---	207 B ON APR 12 *	0 B ON MAR 1	---	1969
1970	---	37.1 ON APR 30	0 B ON MAR 1	---	1970
1971	---	84.5 ON APR 11	0 B ON MAR 1	---	1971
1972	---	30.0 B ON MAR 17	0 B ON JAN 22	36 100	1972
1973	---	7.90 ON JUN 20	0 B ON JAN 1	5 030	1973
1974	---	158 ON APR 19	0.0018 ON JAN 10	135 000	1974
1975	45.0 AT 09:30 CST ON APR 29	41.6 ON APR 29	0 B ON FEB 3	37 800	1975
1976	---	79.0 B ON APR 4	0 B ON NOV 6	66 800	1976
1977	0.906 AT 07:47 CST ON MAY 22	0.778 ON MAY 22	0 B ON JAN 1	780	1977
1978	---	24.4 B ON APR 5	0 B ON NOV 30	13 000	1978
1979	---	188 B ON APR 22	0 B ON JAN 1	87 000	1979
1980	8.73 B AT 22:39 CST ON APR 5	6.48 B ON APR 6	0 B ON MAR 7	5 540	1980
1981	5.34 B AT 02:05 CST ON FEB 25	4.85 B ON FEB 25	0.0048 ON FEB 8	10 200	1981
1982	32.7 B AT 23:19 CST ON APR 12	26.6 B ON APR 13	0.0048 ON FEB 16	40 500	1982
1983	28.8 B AT 00:18 CST ON APR 1	17.5 B ON APR 1	0.0048 ON MAR 2	25 300	1983
1984	4.26 B AT 02:13 CST ON MAR 25	3.65 B ON MAR 25	0 ON AUG 18	6 550	1984
1985	24.3 B AT 01:10 CST ON MAR 20	21.6 B ON MAR 19	0 B ON JAN 8	12 100	1985
1986	9.17 B AT 22:36 CST ON MAR 18	6.44 B ON MAR 20	0.0038 ON FEB 16	25 200	1986
1987	53.2 B AT 19:50 CST ON APR 5 *	48.8 B ON APR 5	0 ON JUL 5	51 100	1987
1988	0.407 AT 10:16 CST ON APR 6	0.383 ON APR 6	0 ON JUL 4	345	1988
				32 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	---	---	---	0.011	0.009	0.002	0	---	---	---	---	1981
1982	---	---	---	---	0.110	0.056	0.002	---	---	---	---	---	---	1982
1983	---	---	---	---	0.118	0.093	0.003	0.003	0.002	---	---	---	---	1983
1984	---	---	---	---	0.083	0.008	0.002	0.002	0.002	---	---	---	---	1984
1985	---	---	---	0.011	---	0.082	0.001	0.004	0.103	---	---	---	---	1985
1986	---	---	---	0.081	0.105	0.008	0.003	0.037	0.003	0.003	---	---	---	1986
1987	---	---	---	0.048	0.123	0.056	0.003	0.001	0	0.004	---	---	---	1987
1988	---	---	---	---	0.048	0.025	0.029	0.033	0.018	0.008	---	---	---	1988
1989	---	---	---	0.088	0.088	0.082	0.136	0.027	0.032	0.032	---	---	---	1989
1970	---	---	---	---	0.201	0.182	0.039	0.008	0.014	---	---	---	---	1970
1971	---	---	---	---	0.066	0.178	0.055	0.011	---	---	---	---	---	1971
1972	---	---	---	---	0.108	0.013	0.006	0.008	0.008	---	---	---	---	1972
1973	---	---	---	---	0.029	0.558	0.014	0.033	0.043	0.088	---	---	---	1973
1974	---	---	---	0.148	0.152	0.084	0.007	0.008	0.010	0.011	---	---	---	1974
1975	---	---	---	---	0.108	0.038	0	0.032	0.124	---	---	---	---	1975
1976	---	---	---	0.084	0.033	0.020	0.018	0	0	---	---	---	---	1976
1977	---	---	---	---	0.027	0.013	0.089	---	0.047	0.025	---	---	---	1977
1978	---	---	---	---	0.044	0.003	0	0	0.007	0.005	---	---	---	1978
1979	---	---	---	---	0.122	0.108	0.008	0.008	0.008	0.005	---	---	---	1979
1980	---	---	---	---	---	0.021	0.050	0.087	0.010	---	---	---	---	1980
1981	---	---	---	---	0.022	0.030	0	0	0.001	---	---	---	---	1981
1982	---	---	---	---	0.068	0.026	0.020	0.018	0.018	---	---	---	---	1982
1983	---	---	---	---	0.126	0.035	0.095	0.309	0.008	---	---	---	---	1983
MEAN	---	---	---	0.078	0.086	0.052	0.024	0.018	0.022	0.017	---	---	---	MEAN

LOCATION - LAT 50 42 16 N
LONG 99 40 00 W

DRAINAGE AREA, 2.59 km²
REGULATED SINCE 1981

DATA CONTRIBUTED BY -
MANITOBA WATER RESOURCES BRANCH

BALD HILL CREEK NEAR MCCREARY - STATION NO. 05LJ005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	---	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	---	---	---	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
1989	---	---	---	---	1989
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	---	---	---	---	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	---	---	1977
1978	---	---	---	---	1978
1979	0.158 AT 23:33 CST ON MAY 18 *	0.158 ON MAY 18 *	---	---	1979
1980	---	---	---	---	1980
1981	0.122 AT 09:15 CST ON JUN 18	0.119 ON JUN 18	0 ON JUL 8 *	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

BARRINGTON RIVER ABOVE FIRST RAPIDS - STATION NO. 06EB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	---	---	---	---	23.4	20.5	15.8	11.8	---	---	---	1974
1975	---	---	---	---	17.2	30.1	31.8	24.5	15.4	12.3	---	---	---	1975
1976	---	---	---	---	---	---	---	---	16.0	13.5	11.8	10.2	---	1976
1977	8.49	6.83	5.58	11.1	22.0	34.5	32.4	21.4	15.3	12.9	12.0	9.51	16.1	1977
1978	7.46	6.74	4.80	4.49	12.3	15.6	---	---	---	27.4	19.8	14.2	---	1978
1979	10.5	7.41	5.01	5.07	7.73	10.3	8.56	8.23	8.44	8.92	7.78	6.66	8.07	1979
1980	5.82	4.83	4.16	5.38	7.06	12.0	20.3	31.7	32.7	31.0	23.2	16.3	16.2	1980
1981	12.5	9.17	7.06	5.60	12.4	11.1	8.80	6.82	4.78	5.08	5.08	4.35	7.77	1981
1982	3.18	2.61	2.48	2.19	16.9	24.4	19.2	20.3	14.1	9.74	7.34	6.71	11.1	1982
1983	6.10	5.04	4.14	3.80	11.1	21.6	16.5	13.1	27.7	32.2	25.6	18.7	15.6	1983
1984	13.6	10.6	8.11	11.6	16.4	15.5	10.6	7.63	6.32	4.74	4.89	4.63	9.66	1984
1985	4.66	4.20	3.72	4.76	24.6	23.8	16.7	11.9	8.66	4.23	3.26	2.44	9.46	1985
1986	2.11	1.65	1.36	1.68	16.6	20.2	25.0	24.9	17.7	---	---	---	---	1986
1987	8.21	6.00	4.36	6.17	12.2	14.6	12.0	8.61	7.12	5.91	5.41	4.93	7.67	1987
1988	4.05	3.48	2.81	3.16	11.0	16.1	16.1	15.0	10.9	7.91	7.57	7.20	8.72	1988
MEAN	7.06	5.98	4.53	5.46	14.7	19.2	18.8	16.5	14.3	13.4	11.2	8.85	11.0	MEAN

LOCATION - LAT 58 45 50 N
LONG 99 58 25 W

DRAINAGE AREA, 1 770 km²
NATURAL FLOW

BARRINGTON RIVER ABOVE FIRST RAPIDS - STATION NO. 05ED003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	---	---	---	1974
1975	38.2 AT 16:48 CST ON JUN 30	35.7 ON JUN 30	---	---	1975
1976	---	---	---	---	1976
1977	38.2 AT 09:20 CST ON JUN 14	37.8 ON JUN 17	5.01 ON APR 1	607 000	1977
1978	---	---	---	---	1978
1979	12.4 AT 03:10 CST ON JAN 1	12.3 ON JAN 1	4.71 ON APR 10	385 000	1979
1980	38.4 AT 22:31 CST ON AUG 2	38.4 ON AUG 2	3.85 ON APR 13	514 000	1980
1981	19.2 AT 09:55 CST ON MAY 15	19.0 ON MAY 15	3.55 ON OCT 5	245 000	1981
1982	31.4 AT 12:00 CST ON MAY 7	31.4 ON MAY 7	1.73 ON APR 7	380 000	1982
1983	40.9 AT 12:00 CST ON SEP 21 *	40.9 ON SEP 21 *	3.34 ON APR 13	490 000	1983
1984	20.8 AT 21:05 CST ON APR 24	20.4 ON APR 24	4.11 ON OCT 16	302 000	1984
1985	29.4 AT 20:36 CST ON MAY 6	29.2 ON MAY 6	2.32 ON DEC 26	298 000	1985
1986	26.7 ON JUL 8	26.5 ON JUL 9	1.26 ON MAR 21 *	---	1986
1987	16.0 AT 14:37 CST ON JUN 5	15.6 ON JUN 5	4.17 ON APR 6	242 000	1987
1988	17.9 AT 11:36 CST ON JUL 11	17.8 ON JUL 11	2.55 ON MAR 27	276 000	1988
	* - EXTREME RECORDED FOR THE PERIOD OF RECORD			348 000	MEAN

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	0.001	3.50	0.103	0.034	0	0	0	0	---	---	0.446	1976
1977	---	---	0.001	0.032	0.037	0.005	0.033	0	0.004	0.021	---	---	0.017	1977
1978	---	---	0	0.805	0.078	0.033	0.089	0.001	0.013	0.002	---	---	0.127	1978
1979	---	---	0	5.54	2.85	0.471	0.008	0	0	0	---	---	1.10	1979
1980	---	---	0	0.173	0.004	0	0	0.336	0.004	0.003	---	---	0.065	1980
1981	---	---	0.038	0.082	0.115	0.257	0	0	0	0.158	---	---	0.078	1981
1982	---	---	0.047	0.811	0.537	0.154	0.053	0.008	0	0.011	---	---	0.177	1982
1983	---	---	0.001	2.80	0.237	0.101	0.024	0	0	0	---	---	0.389	1983
1984	---	---	0.148	0.235	0.356	0.436	0	0	0	0.002	---	---	0.147	1984
1985	---	---	0.315	0.449	0.072	0.002	0.011	0.352	0.024	0.175	---	---	0.175	1985
1986	---	---	1.70	1.87	2.48	0.010	0.836	0.014	0	0	---	---	0.854	1986
1987	---	---	0.812	1.33	0.019	0	0.011	0.558	0.008	0.005	---	---	0.384	1987
1988	---	---	---	---	---	---	---	---	---	---	---	---	---	1988
1988	---	---	0.005	0.208	0.206	0.001	0.001	0	0	0	---	---	0.053	1988
MEAN	---	---	0.244	1.38	0.547	0.116	0.057	0.058	0.004	0.028	---	---	0.306	MEAN

LOCATION - LAT 50 04 00 N DRAINAGE AREA, 289 km^2
LONG 98 37 40 W NATURAL FLOW

BEAVER CREEK EAST OF BEAVER - STATION NO. 05LL028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	24.1 B AT 20:30 CST ON APR 5	17.0 B ON APR 5	0B ON MAR 1 *	9 450	1976
1977	1.07 AT 20:44 CST ON MAY 14	0.425 ON JUL 11	0B ON MAR 1	355	1977
1978	6.99B AT 12:37 CST ON APR 20	3.82 B ON APR 20	0B ON MAR 1	2 690	1978
1979	45.0 AT 01:41 CST ON APR 23 *	43.1 ON APR 23 *	0B ON MAR 1	23 300	1979
1980	7.46 AT 07:02 CST ON AUG 21	4.86 ON AUG 21	0B ON MAR 1	1 385	1980
1981	1.02 AT 02:38 CST ON JUN 2	0.678 ON JUN 2	0B ON MAR 1	1 550	1981
1982	1.78 AT 22:23 CST ON MAY 19	1.66 ON MAY 18	0B ON MAR 1	3 740	1982
1983	---	7.79 B ON APR 6	0B ON MAR 1	8 220	1983
1984	2.43B AT 01:00 CST ON MAY 6	2.18 ON JUN 20	0B ON MAR 1	3 100	1984
1985	4.08B AT 08:28 CST ON APR 5	2.06 B ON MAR 25	0B ON MAR 1	3 700	1985
1986	---	16.6 ON MAY 6	0B ON MAR 1	18 100	1986
1987	11.0 B AT 13:20 CST ON APR 5	8.09 B ON APR 5	0B ON MAR 1	7 800	1987
1988	---	---	---	---	1988
1988	1.87B AT 06:45 CST ON APR 5	1.23 B ON APR 5	0B ON MAR 1	1 110	1988
1988	17.6 AT 05:18 CST ON MAY 8	---	---	---	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 490	MEAN

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.81	1.14	0.073	0	0.001	0	0	---	---	0.583	1974
1975	---	---	0	0.644	0.189	0.035	0.005	0.009	0.009	0.007	---	---	0.108	1975
MEAN	---	---	0	2.08	0.655	0.054	0.003	0.004	0.005	0.004	---	---	0.345	MEAN

LOCATION - LAT 50 03 37 N DRAINAGE AREA, 257 km^2
LONG 98 41 45 W NATURAL FLOW

BEAVER CREEK NEAR BEAVER - STATION NO. 05LL022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	16.4 B ON APR 18 *	0B ON MAR 1 *	12 300	1974
1975	---	2.570 ON APR 12	0B ON MAR 1	2 290	1975
				7 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.801	5.07	7.56	2.46	1.82	2.18	1.28	---	---	---	1954
1955	---	---	---	2.12	3.20	0.888	0.959	0.241	0.235	0.484	---	---	---	1955
1956	---	---	---	0.478	2.83	1.76	2.15	1.70	0.926	0.444	---	---	---	1956
1957	---	---	0.203	0.880	2.87	1.59	1.37	0.923	1.35	0.880	---	---	1.23	1957
1958	---	---	0.193	1.09	1.23	0.788	5.30	0.908	0.562	0.861	---	---	1.38	1958
1959	---	---	0.178	0.536	1.73	1.85	1.03	0.320	3.31	1.52	---	---	1.30	1959
1960	---	---	0.340	0.678	3.84	3.02	1.45	0.751	0.317	0.334	---	---	1.30	1960
1961	---	---	0.232	0.289	0.513	0.233	0.153	0.131	0.126	0.170	---	---	0.233	1961
1962	---	---	0.068	0.354	1.36	0.307	0.135	0.183	0.404	0.243	---	---	0.382	1962
1963	---	---	0.084	1.42	1.83	2.35	0.858	0.648	0.889	0.458	---	---	1.06	1963
1964	---	---	---	0.502	2.05	0.615	0.376	1.70	2.17	0.752	---	---	---	1964
1965	---	---	0.147	0.313	2.83	3.10	2.96	2.06	1.83	1.82	---	---	1.84	1965
1967	---	---	0.131	0.231	4.79	2.61	1.25	0.495	0.288	0.570	---	---	1.28	1967
1968	---	---	0.212	0.367	1.55	2.85	---	---	---	---	---	---	---	1968
1969	---	---	0.227	1.44	0.910	1.56	1.58	0.890	0.511	1.80	---	---	1.09	1969
1970	---	---	0.180	0.502	5.85	2.17	1.92	1.22	1.49	2.88	---	---	2.01	1970
1971	---	---	0.261	2.27	1.80	3.08	1.86	1.19	0.883	1.25	---	---	1.58	1971
1972	---	---	0.221	1.22	4.19	1.57	1.48	0.901	0.463	0.370	---	---	1.30	1972
1973	---	---	0.237	0.179	2.34	5.33	2.78	0.801	0.982	0.661	---	---	1.81	1973
1974	---	---	0.178	1.34	5.19	3.14	1.59	1.03	1.73	1.28	---	---	2.08	1974
1975	---	---	0.268	0.926	3.80	2.48	1.43	1.42	1.74	1.41	---	---	1.85	1975
1976	---	---	0.224	1.26	0.771	2.16	0.998	0.812	0.267	0.281	---	---	0.817	1976
1977	---	---	0.261	0.996	0.681	0.319	---	1.63	2.85	1.67	---	---	---	1977
1978	---	---	0.249	0.593	1.80	0.688	0.822	0.384	0.713	0.918	---	---	0.809	1978
1979	---	---	0.265	0.467	5.27	5.11	1.65	0.689	0.348	0.391	---	---	1.77	1979
1980	---	---	0.184	0.957	0.382	0.374	0.378	1.43	1.42	1.24	---	---	0.788	1980
1981	---	---	0.168	0.678	0.751	1.98	1.23	1.27	1.11	1.68	---	---	1.08	1981
1982	---	---	0.225	0.531	1.14	1.72	3.78	1.80	1.08	0.844	---	---	1.38	1982
1983	---	---	0.365	1.46	5.86	4.43	2.72	1.63	2.38	1.32	---	---	2.51	1983
1984	---	---	0.313	2.49	4.63	4.76	2.01	0.938	1.30	4.31	---	---	2.58	1984
1985	---	---	0.282	2.36	2.73	2.74	1.48	4.71	1.88	1.88	---	---	2.21	1985
1986	---	---	0.264	2.12	5.32	1.84	0.924	0.687	1.06	2.02	---	---	1.77	1986
1987	---	---	0.480	1.98	1.48	2.38	2.84	1.31	0.888	1.10	---	---	1.48	1987
1988	---	---	0.268	2.00	9.83	2.81	1.21	0.378	0.382	0.418	---	---	2.16	1988
MEAN	---	---	0.230	1.05	2.89	2.38	1.84	1.09	1.13	1.13	---	---	1.48	MEAN

LOCATION - LAT 52 38 10 N LONG 101 02 15 W DRAINAGE AREA, 170 km^2 REGULATED SINCE 1955

BELL RIVER NEAR BELLSITE - STATION NO. 05LF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	14.4 ON MAY 23	---	---	1954
1955	---	6.89 ON MAY 7	---	---	1955
1956	---	6.71 ON MAY 16	---	---	1956
1957	---	8.12 ON MAY 3	0.1888 ON MAR 1	26 100	1957
1958	128 AT 03:00 CST ON JUL 6 *	45.8 ON JUL 6 *	0.1708 ON MAR 1	28 800	1958
1959	14.2 AT 22:00 CST ON SEP 2	11.6 A ON JUN 28	0.1428 ON MAR 1	27 600	1959
1960	8.72 AT 06:30 CST ON JUN 21	8.07 ON MAY 13	0.2554 ON APR 8	27 800	1960
1961	0.855 AT 01:00 CST ON MAY 20	0.810 ON MAY 13	0.125 ON AUG 15	4 920	1961
1962	---	2.92 ON MAY 3	0 E ON MAR 1 *	8 070	1962
1963	7.59 AT 07:00 CST ON JUN 13	6.40 ON JUN 13	0.0856 ON MAR 1	22 300	1963
1964	---	6.80 ON AUG 11	---	---	1964
1965	9.40 AT 17:15 CST ON AUG 28	6.08 ON JUL 16	0.1198 ON MAR 1	38 800	1965
1967	13.7 AT 12:00 CST ON MAY 26	13.0 ON MAY 26	0.1138 ON MAR 1	27 100	1967
1968	---	---	---	---	1968
1969	---	12.6 ON OCT 3	0.2278 ON MAR 1	23 000	1969
1970	---	14.4 ON MAY 18	0.1368 ON MAR 1	42 500	1970
1971	---	11.0 ON JUN 6	0.2278 ON MAR 28	33 000	1971
1972	---	11.0 ON MAY 3	0.1708 ON OCT 31	27 600	1972
1973	---	38.6 ON JUN 19	0.0858 ON APR 10	38 300	1973
1974	---	21.8 ON MAY 22	0.1848 ON MAR 1	43 700	1974
1975	---	8.50 A ON MAY 7	0.2888 ON MAR 1	34 900	1975
1976	---	9.51 A ON JUN 14	0.2108 ON OCT 28	17 300	1976
1977	---	8.07 E ON SEP 26	---	---	1977
1978	5.86 AT 00:01 CST ON MAY 3	5.10 ON MAY 3	0.210 ON AUG 31	17 100	1978
1979	---	18.2 E ON MAY 27	0.2218 ON MAR 1	37 400	1979
1980	---	2.80 A ON SEP 4	0.170 ON AUG 2	15 800	1980
1981	7.51 AT 23:43 CST ON JUN 4	5.77 ON JUN 24	0.1248 ON MAR 1	23 200	1981
1982	44.5 AT 13:15 CST ON JUL 17	21.1 ON JUL 18	0.136 ON MAY 19	29 200	1982
1983	19.7 AT 18:48 CST ON JUN 3	15.5 ON JUN 3	0.3528 ON APR 7	53 100	1983
1984	19.3 AT 18:14 CST ON JUN 7	14.0 ON JUN 7	0.301 ON MAR 1	54 500	1984
1985	32.9 AT 17:00 CST ON AUG 13	28.5 A ON AUG 13	0.2358 ON APR 6	46 900	1985
1986	8.20 AT 12:36 CST ON MAY 16	7.87 ON MAY 16	0.2259 ON MAR 2	37 500	1986
1987	7.33 AT 22:57 CST ON JUL 8	5.96 ON JUL 7	0.105 ON MAR 8	31 500	1987
1988	51.6 E AT 11:29 CST ON MAY 1	36.3 ON MAY 1	0.1888 ON MAR 1	45 700	1988
				30 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	---	---	60.8	44.4	57.8	82.8	---	1914
1915	65.6	49.3	38.6	36.5	115	227	118	68.1	48.6	37.7	35.5	51.1	74.3	1915
1916	53.9	45.6	38.7	37.7	104	258	217	162	94.1	68.7	57.5	88.4	101	1916
1917	52.8	44.2	41.6	30.9	34.5	41.2	68.7	139	255	---	---	---	---	1917
1918	---	---	---	---	---	---	---	263	216	---	---	---	---	1918
1919	---	---	---	---	---	---	---	---	---	77.1	82.4	88.6	---	1919
1920	88.3	48.5	37.2	36.3	84.2	250	258	130	75.4	51.2	47.7	52.4	95.9	1920
1921	47.6	40.6	34.5	34.4	97.6	388	318	147	85.2	123	178	145	138	1921
1922	96.0	68.6	51.5	53.6	171	271	178	162	127	80.9	86.0	80.5	114	1922
1923	49.8	43.5	35.6	---	---	---	---	---	---	---	---	---	---	1923
MEAN	61.7	48.8	39.7	38.3	102	238	193	163	121	69.0	78.0	77.0	104	MEAN

LOCATION - LAT 52 03 00 N, LONG 95 28 00 W
DRAINAGE AREA, 15 900 km^2
NATURAL FLOW

BERENS RIVER ABOVE LITTLE GRAND RAPIDS - STATION NO. 05RD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	261 ON JUN 3	32.8 ON NOV 10	2 340 000	1915
1916	---	279 ON JUN 17	34.3 ON APR 12	3 210 000	1916
1917	---	300 ON SEP 28	28.2 ON APR 23 *	---	1917
1918	---	---	---	---	1918
1919	---	---	---	---	1919
1920	---	320 ON JUL 7	32.6E ON APR 3	3 030 000	1920
1921	---	428 ON JUN 21 *	31.1 ON APR 14	4 300 000	1921
1922	---	309 ON JUN 4	48.7E ON APR 14	3 800 000	1922
1923	---	82.4 ON JAN 7	31.1 ON MAR 31	---	1923
				3 300 000	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	75.9	44.7	24.1	12.8	7.84	5.88	---	1957
1958	5.88	5.18	5.55	6.41	11.3	24.8	34.1	35.2	31.2	22.9	24.0	28.8	19.8	1958
1959	25.7	19.7	12.1	11.4	87.1	217	131	59.5	34.9	25.5	35.8	29.4	57.8	1959
1960	21.8	15.1	10.4	8.87	21.8	85.0	59.8	31.9	23.8	24.6	20.8	16.8	26.8	1960
1961	15.1	13.0	10.5	10.2	18.7	32.8	27.6	18.5	8.45	5.52	4.91	8.74	14.0	1961
1962	10.1	9.29	7.29	5.84	7.42	45.1	59.8	35.8	25.7	37.4	38.5	34.0	26.3	1962
1963	28.0	18.9	12.0	12.4	49.1	107	96.6	52.1	26.2	11.5	6.08	6.88	35.8	1963
1964	6.71	6.48	6.03	6.85	26.8	76.3	55.6	31.8	22.2	16.8	20.5	23.5	25.1	1964
1965	22.5	18.9	10.7	12.0	21.1	57.2	90.4	50.9	37.2	35.9	40.0	33.5	36.8	1965
1966	23.9	18.8	12.4	10.3	18.2	77.8	138	68.4	42.9	18.3	12.5	13.5	39.4	1966
1967	14.2	13.0	9.47	10.9	26.3	109	124	66.3	33.5	18.9	12.3	4.74	37.0	1967
1968	7.81	7.58	6.26	6.85	11.4	51.2	131	123	116	116	107	84.8	64.3	1968
1969	58.8	43.2	32.4	30.9	53.5	94.2	98.0	127	129	191	149	78.7	90.7	1969
1970	47.8	32.7	21.9	18.1	25.1	35.0	71.9	52.8	38.3	31.6	36.3	58.1	39.2	1970
1971	58.7	43.4	23.7	30.2	76.6	110	84.4	54.3	48.9	38.2	29.0	23.8	50.4	1971
1972	23.1	21.1	16.6	18.8	55.3	101	72.3	38.7	24.6	20.7	21.0	26.4	35.6	1972
1973	21.8	17.9	15.6	19.5	32.6	52.1	57.1	38.0	30.4	37.6	46.0	53.8	35.3	1973
1974	39.6	28.1	21.1	24.2	58.8	139	114	54.8	48.0	84.6	83.4	38.0	67.2	1974
1975	27.4	21.4	16.7	18.0	35.8	77.8	95.3	89.8	75.0	55.9	36.3	24.1	48.1	1975
1976	19.8	16.4	13.7	26.9	38.0	40.4	34.7	21.1	13.3	9.10	6.88	5.26	20.8	1976
1977	4.95	4.89	5.03	7.56	9.51	12.6	24.5	24.7	53.3	82.8	84.0	38.9	27.9	1977
1978	24.9	18.2	14.9	17.3	35.1	46.8	76.7	103	88.7	84.6	60.3	41.9	52.5	1978
1979	29.5	21.8	16.7	24.6	74.4	180	98.6	47.1	38.0	35.0	32.9	31.3	52.6	1979
1980	28.8	25.4	19.0	20.0	27.3	38.4	43.4	29.7	32.9	24.2	19.5	21.5	27.8	1980
1981	17.9	14.2	11.5	13.1	18.1	27.4	48.3	41.3	29.7	29.8	31.9	32.5	26.4	1981
1982	29.5	23.1	18.8	23.6	58.5	128	123	68.7	40.9	32.2	23.7	20.1	49.3	1982
1983	16.3	16.3	14.0	14.9	26.3	46.8	71.3	82.2	40.4	23.5	16.7	11.9	30.5	1983
1984	11.9	12.5	10.7	17.3	28.0	54.6	72.8	80.0	29.2	23.0	23.6	28.2	30.2	1984
1985	27.2	21.9	17.3	21.8	45.3	76.2	107	130	85.3	76.6	62.1	47.7	61.2	1985
1986	33.8	22.6	18.3	33.4	86.7	125	85.7	35.8	---	---	---	---	---	1986
1987	25.5	20.7	17.3	28.8	61.8	69.7	42.4	30.4	23.0	13.9	10.7	7.76	29.2	1987
1988	5.74	4.54	4.44	7.76	14.2	23.8	32.6	19.6	13.9	12.2	9.74	8.38	13.2	1988
MEAN	23.8	18.6	13.8	16.7	37.5	76.9	76.1	54.8	42.9	40.0	34.3	28.7	38.7	MEAN

LOCATION - LAT 52 12 10 N
LONG 95 08 10 W NATURAL FLOW

BERENS RIVER AT OUTLET OF LONG LAKE - STATION NO. 05RD007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	38.2 ON AUG 11	4.90 ON MAR 27	623 000	1958
1959	---	248 ON JUN 9 *	9.57 ON APR 9	1 810 000	1959
1960	---	79.6 ON JUN 23	8.30 ON APR 19	847 000	1960
1961	---	35.1 ON JUN 16	4.81 ON NOV 5	442 000	1961
1962	---	58.8 ON JUN 29	4.59 ON MAY 1	830 000	1962
1963	---	127 ON JUN 25	6.97 ON DEC 9	1 130 000	1963
1964	---	81.3 ON JUN 11	5.95 ON MAR 19	783 000	1964
1965	---	118 ON JUL 1	8.83 ON MAR 20	1 180 000	1965
1966	---	162 ON JUL 5	9.54 ON APR 19	1 240 000	1966
1967	---	175 ON JUN 23	3.74 ON DEC 8 *	1 170 000	1967
1968	---	144 ON JUL 21	5.27 ON APR 7	2 030 000	1968
1969	---	206 E ON OCT 19	27.7 B ON APR 6	2 880 000	1969
1970	---	77.0E ON JUL 12	16.7 R ON APR 15	1 240 000	1970
1971	126 AT 17:00 CST ON JUN 3	126 ON JUN 5	18.8 R ON APR 8	1 590 000	1971
1972	109 AT 21:12 CST ON JUN 13	108 ON JUN 14	12.8 E ON APR 9	1 150 000	1972
1973	66.5 AT 18:17 CST ON JUL 3	66.2 ON JUL 3	14.7 R ON MAR 21	1 110 000	1973
1974	173 AT 10:10 CST ON JUN 25	170 ON JUN 23	17.6 ON APR 13	1 800 000	1974
1975	107 AT 11:18 CST ON JUN 30	106 ON JUL 1	14.9 E ON MAR 25	1 520 000	1975
1976	---	43.3 ON JUL 1	5.04E ON DEC 31	653 000	1976
1977	86.4 AT 18:20 CST ON OCT 18	86.1 ON OCT 18	4.87 ON JAN 30	880 000	1977
1978	108 AT 10:43 CST ON AUG 17	108 ON AUG 17	14.4 B ON MAR 23	1 560 000	1978
1979	189 AT 21:12 CST ON JUN 14 *	188 ON JUN 11	15.8 B ON MAR 21	1 860 000	1979
1980	47.5 AT 12:17 CST ON JUL 6	46.9 ON JUL 6	16.4 B ON APR 5	872 000	1980
1981	55.8 AT 11:48 CST ON JUL 6	50.4 ON JUL 4	10.7 B ON MAR 25	833 000	1981
1982	152 AT 19:21 CST ON JUN 25	151 ON JUN 24	15.8 B ON APR 12	1 560 000	1982
1983	91.0 AT 16:12 CST ON JUN 28	90.8 ON JUL 1	10.8 ON DEC 22	983 000	1983
1984	76.2 AT 17:41 CST ON JUL 4	76.1 ON JUL 5	9.80B ON MAR 26	957 000	1984
1985	141 AT 17:52 CST ON AUG 5	140 ON AUG 5	14.3 B ON APR 11	1 930 000	1985
1986	137 AT 18:36 CST ON JUN 12	137 ON JUN 8	---	---	1986
1987	---	76.5E ON MAY 29	7.08B ON DEC 31	921 000	1987
1988	---	36.5E ON JUL 13	4.04B ON MAR 14	418 000	1988
				1 220 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

BIG GRASS RIVER ANGLE DITCH NEAR GLENELLA - STATION NO. 05LL026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	7.79	5.62	0.696	0.041	0	0	0	---	---	1.88	1974
1975	---	---	0	1.41	1.41	0.762	0.055	2.19	13.3	3.53	---	---	2.80	1975
1976	---	---	0.113	20.8	1.80	0.514	0.145	0	0	0	---	---	2.84	1976
1977	---	---	0.002	0.206	0.222	0.052	0.088	0	0.220	0.117	---	---	0.111	1977
1978	---	---	0	1.46	0.840	0.137	0.016	0	0.031	0.040	---	---	0.283	1978
1979	---	---	0	7.59	10.1	1.07	0.073	0.001	0	0	---	---	2.35	1979
1980	---	---	0	0.580	0.048	0	0	1.26	0.850	0.315	---	---	0.381	1980
1981	---	---	0.283	0.279	0.295	0.354	0.101	0.047	0.005	0.083	---	---	0.183	1981
1982	---	---	0.006	3.16	0.856	0.229	1.26	0.134	0	0.104	---	---	0.727	1982
1983	---	---	0.001	5.61	2.11	0.589	0.204	0	0	0	---	---	1.05	1983
1984	---	---	0.062	0.387	0.492	0.763	0.108	0	0	0.139	---	---	0.242	1984
1985	---	---	0.037	2.69	0.363	0.283	0.172	0.361	0.211	0.306	---	---	0.547	1985
1986	---	---	0.458	3.72	10.7	0.393	0.352	0.107	0.021	0.128	---	---	2.00	1986
1987	---	---	0.005	4.03	0.213	0.086	0.012	0.001	0	0	---	---	0.530	1987
1988	---	---	0.001	0.715	0.423	0.003	0	0	0	0	---	---	0.142	1988
MEAN	---	---	0.085	4.03	2.42	0.394	0.174	0.273	0.976	0.318	---	---	1.07	MEAN

LOCATION - LAT 50 33 37 N DRAINAGE AREA, 480 km²
LONG 99 09 23 W NATURAL FLOW

REMARKS - PUBLISHED AS GLENELLA DRAIN PRIOR TO 1988. PUBLISHED AS "ANGLE DRAIN NEAR GLENELLA" IN 1987

BIG GRASS RIVER ANGLE DITCH NEAR GLENELLA - STATION NO. 05LL026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	31.7 ON APR 21	0B ON MAR 1 *	38 800	1974
1975	45.9 AT 16 25 CST ON SEP 22 *	43.9 ON SEP 22	0B ON MAR 1	59 300	1975
1976	---	51.5 ON APR 9 *	0 ON JUL 31	60 100	1976
1977	---	1.97 ON SEP 26	0B ON MAR 1	2 340	1977
1978	---	4.13 ON APR 26	0B ON MAR 1	6 210	1978
1979	---	33.7 B ON APR 26	0B ON MAR 1	49 700	1979
1980	---	9.76 ON AUG 21	0B ON MAR 1	8 050	1980
1981	0.867 AT 00 00 CST ON APR 2	0.8198 ON MAR 31	0B ON MAR 1	3 880	1981
1982	---	8.62 B ON APR 16	0B ON MAR 1	15 400	1982
1983	12.4 B AT 18 40 CST ON APR 10	11.1 ON APR 21	0B ON MAR 1	22 200	1983
1984	6.42 AT 18 21 CST ON JUN 23	4.82 ON JUN 24	0B ON MAR 1	5 130	1984
1985	6.06 B AT 18 53 CST ON APR 2	5.12 ON APR 10	0B ON MAR 1	11 600	1985
1986	31.2 AT 14 52 CST ON MAY 6	30.4 ON MAY 6	0B ON MAR 1	42 300	1986
1987	12.0 AT 05 31 CST ON APR 6	11.7 ON APR 6	0B ON MAR 1	11 200	1987
1988	3.77 B AT 18 52 CST ON APR 5	3.06 B ON APR 4	0B ON MAR 1	2 990	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		22 700	MEAN

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.22	3.52	1.85	0.480	0.267	2.69	0.712	---	---	1.70	1965
1966	---	---	0.780	8.80	5.69	1.22	0.410	0.488	0.130	0.054	---	---	2.16	1966
1967	---	---	0.002	10.0	5.03	0.487	0.412	0.041	0	0	---	---	1.98	1967
1968	---	---	0.458	2.72	2.54	0.485	0.534	1.33	0.740	0.318	---	---	1.14	1968
1969	---	---	0	21.1	3.29	2.51	5.85	0.540	0.206	0.227	---	---	4.14	1969
1970	---	---	0	12.1	24.3	2.08	1.25	0.052	0.001	0.210	---	---	5.00	1970
1971	---	---	0.001	4.88	1.09	8.35	8.17	0.186	0.048	1.01	---	---	2.89	1971
1972	---	---	1.24	14.1	3.73	0.488	0.038	0	0	0	---	---	2.42	1972
1973	---	---	0.336	0.351	0.384	0.593	0.013	0	0.021	0.002	---	---	0.211	1973
1974	---	---	0	15.5	14.3	1.81	0.106	0	0	0	---	---	3.86	1974
1975	---	---	0	2.73	3.21	1.88	0.328	3.85	23.1	5.12	---	---	4.83	1975
1976	---	---	0.188	51.5	2.48	1.04	0.227	0	0	0	---	---	8.78	1976
1977	---	---	0	0.271	0.373	0.144	0.141	0	0.248	0.127	---	---	0.184	1977
1978	---	---	0	3.02	1.44	0.490	0.048	0	0.014	0.013	---	---	0.611	1978
1979	---	---	0	20.6	22.0	2.40	0.225	0.013	0.005	0.001	---	---	5.62	1979
1980	---	---	0	1.14	0.088	0.002	0	2.84	1.82	0.728	---	---	0.801	1980
1981	---	---	0.821	0.744	0.488	0.884	0.225	0.094	0.003	0.159	---	---	0.373	1981
1982	---	---	0.039	7.74	1.63	0.412	0.751	0.187	0.005	0.185	---	---	1.35	1982
1983	---	---	0.003	12.2	2.87	1.07	0.387	0.006	0	0	---	---	2.04	1983
1984	---	---	0.109	0.370	0.577	1.23	0.287	0	0	0.180	---	---	0.340	1984
1985	---	---	0.707	5.57	0.803	0.846	0.358	0.846	0.437	0.588	---	---	1.21	1985
1986	---	---	1.81	8.28	23.4	0.989	1.25	0.358	0.126	0.690	---	---	4.60	1986
1987	---	---	0.237	8.21	0.578	0.138	0.031	0.012	0	0	---	---	1.25	1987
1988	---	---	0.004	1.34	0.843	0.025	0	0	0	0	---	---	0.275	1988
MEAN	---	---	0.283	8.10	5.19	1.28	0.805	0.438	1.23	0.431	---	---	3.32	MEAN

LOCATION - LAT 50 30 22 N DRAINAGE AREA, 1 070 km²
LONG 98 58 15 W NATURAL FLOW

BIG GRASS RIVER NEAR GLENELLA - STATION NO. 05LL015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	15.0 ON APR 18	0B ON MAR 1 *	38 000	1965
1966	---	26.8 ON APR 3	0B ON MAR 1	45 800	1966
1967	---	41.9 ON APR 17	0B ON MAR 1	41 900	1967
1968	---	7.70 ON MAY 18	0B ON MAR 1	24 100	1968
1969	---	83.5 ON APR 14	0B ON MAR 1	87 800	1969
1970	---	106 ON APR 30	0B ON MAR 1	108 000	1970
1971	---	38.2 ON JUL 2	0 ON AUG 17	57 000	1971
1972	---	26.8 ON APR 15	0 ON JUL 8	51 300	1972
1973	3.94 AT 14:42 CST ON JUN 20	3.57 ON JUN 20	0 ON JUL 8	4 480	1973
1974	89.7 B AT 17:45 CST ON APR 20	83.1 ON APR 21	0B ON MAR 1	83 700	1974
1975	80.7 AT 17:33 CST ON SEP 23	78.4 ON SEP 23	0B ON MAR 1	104 000	1975
1976	112 AT 08:18 CST ON APR 10 *	111 ON APR 10 *	0 ON AUG 4	143 000	1976
1977	2.44 AT 00:57 CST ON SEP 27	2.30 ON SEP 27	0B ON MAR 1	3 480	1977
1978	8.00 AT 17:00 CST ON APR 25	8.92 ON APR 25	0B ON MAR 1	12 800	1978
1979	98.8 AT 14:09 CST ON APR 26	97.2 ON APR 26	0B ON MAR 1	118 000	1979
1980	19.5 AT 10:36 CST ON AUG 22	19.0 ON AUG 22	0B ON MAR 1	17 000	1980
1981	---	1.32B ON APR 4	0 ON SEP 11	7 900	1981
1982	26.0 AT 00:03 CST ON APR 16	25.5 ON APR 16	0B ON MAR 1	28 700	1982
1983	---	23.8 B ON APR 12	0B ON MAR 1	43 200	1983
1984	8.01 AT 10:37 CST ON JUN 24	8.75 ON JUN 24	0B ON MAR 1	7 210	1984
1985	12.2 AT 08:14 CST ON APR 7	11.3 ON APR 7	0B ON MAR 1	25 500	1985
1986	70.1 AT 01:10 CST ON MAY 8	69.2 ON MAY 8	0 ON SEP 14	97 300	1986
1987	29.7 AT 00:06 CST ON APR 8	26.8 ON APR 8	0 ON JUN 26	26 600	1987
1988	8.00 AT 18:08 CST ON APR 5	7.88B ON APR 5	0B ON MAR 1	5 810	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		48 100	MEAN

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	6.43	4.08	1.36	1.02	1.59	0.897	---	---	---	1954
1955	---	---	---	2.10	2.37	0.605	0.338	0.334	0.273	0.377	---	---	---	1955
1956	---	---	0.255	0.340	3.88	1.57	1.63	0.259	0.206	0.238	---	---	1.05	1956
1957	---	---	0.128	1.04	3.07	0.880	0.383	0.377	0.640	0.207	---	---	0.814	1957
1958	---	---	0.168	0.839	0.868	0.518	2.65	0.184	0.203	0.278	---	---	0.701	1958
1959	---	---	0.028	0.895	1.18	1.01	0.557	0.180	0.573	0.498	---	---	0.615	1959
1960	---	---	0.231	0.855	3.18	1.72	0.614	0.871	0.210	0.156	---	---	0.981	1960
1961	---	---	0.028	0.043	0.306	0.178	0.128	0.126	0.158	0.183	---	---	0.144	1961
1962	---	---	0	0.180	0.827	0.263	0.213	0.219	0.420	0.311	---	---	0.278	1962
1963	---	---	0	0.284	1.87	2.10	0.527	0.285	0.324	0.357	---	---	0.730	1963
1964	---	---	---	0.488	1.27	0.311	0.885	0.778	0.474	0.484	---	---	---	1964
1965	---	---	0	0.788	3.50	4.23	1.11	0.537	1.69	0.832	---	---	1.80	1965
1966	---	---	0.170	0.374	3.34	1.98	1.78	1.80	2.01	---	---	---	---	1966
1967	---	---	0.234	0.238	5.56	1.28	0.156	0.126	0.088	0.368	---	---	1.01	1967
1968	---	---	0.208	0.409	0.858	1.94	2.71	2.89	0.814	0.561	---	---	1.28	1968
1969	---	---	0.248	2.09	0.812	0.682	0.945	0.480	0.380	2.89	---	---	1.08	1969
1970	---	---	0.080	0.418	3.88	1.80	1.53	0.338	0.248	1.21	---	---	1.17	1970
1971	---	---	0.180	1.81	1.18	1.93	0.618	0.358	0.214	0.472	---	---	0.814	1971
1972	---	---	0.215	0.927	4.56	0.715	0.880	0.280	0.253	0.262	---	---	1.01	1972
MEAN	---	---	0.138	0.775	2.57	1.45	0.978	0.591	0.578	0.586	---	---	0.884	MEAN

LOCATION - LAT 52 22 54 N, LONG 101 06 02 W. DRAINAGE AREA, 131 km^2. NATURAL FLOW

BIRCH RIVER AT BIRCH RIVER - STATION NO. 05LE003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	5.41 ON MAY 3	---	---	1955
1956	---	10.1 ON MAY 18	0.142 ON AUG 18	22 300	1956
1957	---	6.16 ON MAY 1	0.113B ON MAR 1	17 200	1957
1958	---	15.1 ON JUL 6	0.113 ON AUG 15	14 900	1958
1959	---	4.81 ON APR 28	0.028B ON MAR 1	13 000	1959
1960	---	8.06 ON MAY 24	0.186RE ON SEP 5	20 600	1960
1961	---	0.365 ON MAY 6	0.028B ON MAR 1	3 040	1961
1962	---	2.23 ON MAY 1	0 B ON MAR 1 *	6 910	1962
1963	---	4.64 ON JUN 15	0 B ON MAR 1	15 500	1963
1964	---	3.48 ON MAY 11	---	---	1964
1965	---	10.1 ON JUN 3	0 B ON MAR 1	34 000	1965
1966	---	10.6 ON AUG 30	---	---	1966
1967	---	15.4 ON MAY 28	0.011 ON JUL 11	21 600	1967
1968	---	20.2 ON JUL 30 *	0.170B ON MAR 16	27 000	1968
1969	---	8.74 ON OCT 4	0.227 ON SEP 19	22 300	1969
1970	---	8.44 ON MAY 7	0.008B ON MAR 1	24 700	1970
1971	---	5.89 ON JUN 10	0.176 ON SEP 25	17 200	1971
1972	---	10.9 ON MAY 2	0.176 ON OCT 31	21 600	1972
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1988		18 700	MEAN

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. OSLE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.231	0.189	1.99	4.44	0.737	0.202	0.480	0.843	---	---	1.10	1973
1974	---	---	0.181	1.40	5.44	1.75	0.898	0.870	1.27	0.712	---	---	1.58	1974
1975	---	---	0.238	0.872	3.87	2.42	0.819	0.435	0.704	0.787	---	---	1.28	1975
1976	---	---	0.219	1.27	0.588	1.78	0.710	0.421	0.224	0.276	---	---	0.684	1976
1977	---	---	0.208	0.882	0.908	0.285	---	1.06	2.82	1.06	---	---	---	1977
1978	---	---	0.183	0.822	1.37	0.726	0.871	0.189	0.884	0.577	---	---	0.852	1978
1979	---	---	0.183	0.854	8.41	2.82	0.380	0.123	0.218	0.415	---	---	1.41	1979
1980	---	---	0.672	0.800	0.337	0.322	0.377	2.46	2.00	0.912	---	---	0.908	1980
1981	---	---	0.230	0.851	1.10	0.888	1.00	2.27	0.800	2.15	---	---	1.15	1981
1982	---	---	0.088	0.778	1.21	1.08	2.19	0.475	0.311	0.777	---	---	0.885	1982
1983	---	---	0.217	3.85	4.42	3.18	2.15	0.338	1.04	0.785	---	---	1.95	1983
1984	---	---	0.291	3.97	4.74	3.33	0.353	0.212	0.502	1.84	---	---	1.87	1984
1985	---	---	0.424	3.76	1.85	2.06	0.851	1.89	0.882	0.845	---	---	1.58	1985
1986	---	---	0.197	2.81	2.47	1.21	0.519	0.823	0.771	0.813	---	---	1.17	1986
1987	---	---	0.214	3.47	0.985	0.941	2.03	0.783	0.619	1.09	---	---	1.26	1987
1988	---	---	0.222	4.30	8.90	0.378	0.131	0.181	0.203	0.308	---	---	1.58	1988
MEAN	---	---	0.212	1.88	2.75	1.74	0.918	0.800	0.814	0.859	---	---	1.27	MEAN

LOCATION - LAT 52 22 25 N DRAINAGE AREA, 136 km²
LONG 101 05 00 W NATURAL FLOW

BIRCH RIVER NEAR BIRCH RIVER - STATION NO. OSLE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	10.6 AT 02 30 CST ON JUN 4	10.2 ON JUN 4	0.0998 ON APR 18	33 200	1973
1974	12.8 AT 04 34 CST ON MAY 22	11.8 ON MAY 22	0.142 ON AUG 11	33 000	1974
1975	8.47 AT 01 18 CST ON MAY 8	7.80 ON MAY 8	0.153 ON JUL 30	27 100	1975
1976	5.04 AT 17 20 CST ON JUN 26	4.80 ON JUN 26	0.133 ON AUG 8	14 500	1976
1977	5.49 AT 18 02 CST ON SEP 25	4.76 ON SEP 25	---	---	1977
1978	3.37 AT 18 14 CST ON APR 29	2.73 ON MAY 2	0.108 ON AUG 29	13 800	1978
1979	22.8 AT 03 15 CST ON MAY 28	21.0 ON MAY 28	0 ON SEP 17 *	30 000	1979
1980	11.1 AT 09 12 CST ON SEP 4	7.33 ON SEP 4	0.0688 ON MAR 1	19 200	1980
1981	8.83 AT 22 35 CST ON AUG 4	7.83 ON AUG 4	0.053 ON SEP 10	24 400	1981
1982	15.9 AT 21 40 CST ON JUL 17	11.5 ON JUL 18	0 ON JUL 1	18 300	1982
1983	---	19.2 B ON APR 25	0.135 ON AUG 7	41 200	1983
1984	10.8 AT 18 40 CST ON JUN 7	8.96 ON MAY 19	0.026 ON AUG 31	39 600	1984
1985	15.7 AT 19 15 CST ON APR 21	15.2 ON APR 21	0.340 ON AUG 7	33 000	1985
1986	8.09 AT 15 15 CST ON MAY 14	4.35 ON SEP 28	0.1488 ON MAR 3	24 800	1986
1987	10.8 AT 20 00 CST ON APR 8	8.98A ON APR 8	0.2018 ON MAR 1	26 600	1987
1988	34.8 AT 15 00 CST ON APR 30 *	32.8 A ON APR 30 *	0.021 ON JUL 29	33 500	1988
				26 800	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. OSPJ001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	26.1	17.8	5.43	3.74	2.07	1.54	1.98	1.75	---	1960
1961	1.87	1.68	---	---	9.15	5.91	2.83	1.47	0.836	0.397	1.13	1.59	---	1961
1962	1.92	1.84	1.82	3.13	14.0	17.6	12.2	11.4	14.3	7.07	4.22	8.48	8.04	1962
1963	4.11	4.33	---	11.2	17.2	15.7	12.4	5.83	5.29	4.55	1.86	1.79	---	1963
1964	1.33	1.83	2.28	8.44	28.4	11.7	3.95	2.78	11.0	10.0	3.43	3.11	11.7	1964
1965	3.62	2.97	1.90	8.08	28.4	14.8	8.34	3.81	3.18	3.67	4.01	4.57	13.3	1965
1966	4.20	3.87	3.96	9.00	20.3	16.7	8.98	2.71	2.82	3.14	2.45	2.98	12.5	1966
1967	3.40	3.54	3.08	9.98	22.2	11.1	4.97	2.89	0.813	0.213	0.172	0.208	11.6	1967
1968	0.450	0.805	0.885	2.82	5.61	10.4	9.13	5.11	5.85	5.49	5.74	5.35	4.79	1968
1969	4.81	4.79	3.78	8.18	9.89	8.77	7.36	5.18	4.43	9.82	7.81	5.41	7.18	1969
1970	4.32	3.80	3.40	4.82	19.3	21.8	9.43	5.26	4.47	6.58	10.2	8.48	12.2	1970
1971	5.74	4.24	3.28	9.40	18.8	8.12	4.45	1.89	1.86	1.93	4.35	4.78	8.40	1971
1972	3.88	3.36	3.03	5.80	12.6	7.71	3.92	2.80	2.38	3.04	4.33	4.51	7.24	1972
1973	3.73	3.01	2.68	6.42	8.38	7.30	7.13	7.30	11.1	13.6	11.6	6.21	6.19	1973
1974	5.28	4.87	3.83	10.2	47.5	28.8	8.11	4.22	11.2	7.52	4.88	3.72	22.8	1974
1975	3.08	3.04	2.89	4.74	13.2	10.1	6.31	2.87	2.05	1.81	1.10	0.976	7.74	1975
1976	1.28	1.57	1.88	6.84	11.6	10.9	7.49	2.17	0.817	0.140	0.041	0.101	7.78	1976
1977	0.108	0.188	0.318	0.594	1.89	5.62	8.71	5.82	10.2	8.71	5.73	5.44	2.08	1977
1978	4.48	3.51	2.84	5.73	16.6	14.7	12.3	5.84	3.72	2.00	1.15	0.917	10.4	1978
1979	---	---	1.14	5.18	22.2	18.9	7.05	3.80	1.73	0.878	---	---	11.3	1979
1980	---	---	2.10	5.82	8.33	4.22	1.78	0.923	0.958	2.71	---	---	5.07	1980
1981	---	---	1.83	2.09	2.27	4.10	---	---	---	---	---	---	2.58	1981
1982	---	---	1.77	4.88	10.6	11.3	---	---	---	---	---	---	7.09	1982
1983	---	---	1.78	3.03	5.67	8.58	---	---	---	---	---	---	4.25	1983
1984	---	---	1.01	4.41	8.29	12.9	---	---	---	---	---	---	6.82	1984
1985	---	---	2.55	5.09	12.2	7.80	---	---	---	---	---	---	6.88	1985
1986	---	---	2.72	12.7	24.6	11.4	---	---	---	---	---	---	12.9	1986
1987	---	---	2.73	8.44	7.29	3.88	---	---	---	---	---	---	5.78	1987
1988	---	---	0.462	2.18	3.38	3.33	---	---	---	---	---	---	2.33	1988
MEAN	3.21	2.84	2.28	6.20	15.0	11.3	7.15	4.21	4.88	4.84	4.17	3.75	8.49	MEAN

LOCATION - LAT 50 27 48 N DRAINAGE AREA, 1 070 km²
LONG 95 24 50 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BIRD RIVER AT OUTLET OF BIRD LAKE - STATION NO. 05PJ001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	30.9 E ON JUN 2	---	---	1980
1981	---	---	---	---	1981
1982	---	23.8 ON JUN 1	1.44 E ON MAR 1	85 300	1982
1983	---	19.9 ON MAY 24	---	---	1983
1984	---	33.7 ON MAY 12	1.96 E ON MAR 1	124 000	1984
1985	---	33.4 E ON MAY 7	1.33 E ON MAR 1	141 000	1985
1986	---	26.3 ON MAY 26	3.77 E ON MAR 9	131 000	1986
1987	---	24.2 ON MAY 12	2.72 E ON APR 3	122 000	1987
1988	13.0 AT 15:10 CST ON JUN 20	12.5 ON JUN 19	0.481E ON MAR 12	50 500	1988
1989	14.4 AT 02:46 CST ON APR 28	13.9 ON APR 26	3.17 ON APR 7	75 600	1989
1970	---	28.7 E ON JUN 3	3.11 E ON APR 1	128 000	1970
1971	20.5 AT 07:00 CST ON MAY 7	20.1 ON MAY 8	3.09 ON MAR 25	88 100	1971
1972	13.4 AT 01:42 CST ON MAY 12	13.2 ON MAY 8	2.83 ON APR 9	76 300	1972
1973	---	8.71 ON APR 27	2.40 ON MAR 21	85 200	1973
1974	---	65.7 A ON MAY 25 *	3.37 ON APR 10	241 000	1974
1975	14.3 AT 04:43 CST ON MAY 19	14.3 ON MAY 19	2.73 ON APR 12	81 500	1975
1976	15.4 AT 17:00 CST ON JUN 18	14.6 ON JUN 18	1.70 ON MAR 1	82 000	1976
1977	---	10.7 ON JUN 24	0.275 ON MAR 1 *	21 800	1977
1978	20.3 AT 02:27 CST ON MAY 19	18.9 ON MAY 15	2.25 ON MAR 30	110 000	1978
1979	24.5 AT 08:14 CST ON MAY 19	24.4 ON MAY 19	0.972 ON MAR 11	120 000	1979
1980	11.4 AT 11:51 CST ON APR 28	11.3 ON APR 28	1.58 ON APR 4	53 400	1980
1981	---	8.74 ON JUN 30	1.75 ON MAR 23	27 000	1981
1982	12.8 AT 13:45 CST ON JUN 14	12.8 ON JUN 14	1.34 B ON MAR 21	74 500	1982
1983	6.87 AT 16:09 CST ON JUN 26	6.62 ON JUN 26	1.31 B ON MAR 1	44 800	1983
1984	17.2 AT 21:38 CST ON JUN 22	16.3 ON JUN 20	0.907B ON MAR 12	89 700	1984
1985	14.0 AT 12:11 CST ON MAY 15	13.8 ON MAY 14	2.24 B ON MAR 21	72 300	1985
1986	31.0 AT 18:38 CST ON MAY 7 *	31.0 ON MAY 7	2.46 B ON MAR 11	136 000	1986
1987	12.6 AT 15:00 CST ON APR 19	12.0 ON APR 19	2.10 ON JUN 30	60 900	1987
1988	5.61 AT 21:30 CST ON JUN 7	4.93 ON JUN 6	0.339A ON MAR 2	24 500	1988
				89 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	5.23	1.72	0.383	0.211	0.237	0.632	0.283	0.142	---	1914
1915	0	0	0	1.28	0.720	0.859	1.37	0.142	0.685	1.42	1.28	0.568	0.704	1915
1916	0	0	0	3.22	2.82	5.78	3.24	0.849	0.625	1.21	0.928	0.343	2.80	1916
1917	0.283	0	0	5.21	5.48	2.12	1.44	0.082	0.081	0.181	0.121	0.081	1.34	1917
1924	---	---	---	---	---	---	---	---	---	2.34	---	---	---	1924
1925	---	---	---	19.3	4.92	5.15	---	---	---	---	---	---	---	1925
1926	---	---	---	5.10	2.01	1.35	1.33	0.192	0.974	---	---	---	---	1926
1928	---	---	---	---	4.93	5.62	5.43	1.41	0.558	---	---	---	---	1928
MEAN	0.094	0	0	7.82	4.02	4.53	2.71	0.478	0.527	1.13	0.653	0.276	1.51	MEAN

LOCATION - LAT 50 25 15 N, LONG 101 02 40 W
DRAINAGE AREA, 1 320 km^2
NATURAL FLOW

BIRDTAIL CREEK AT BIRTLE - STATION NO. 05ME002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	2.46 ON JUL 20	0E ON JAN 1 *	22 200	1915
1916	---	16.5 ON APR 17 *	0E ON JAN 1	79 100	1916
1917	---	16.6 ON APR 27	0E ON FEB 1	42 100	1917
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1928	---	---	---	---	1928
				47 800	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	2.35	1.04	0.874	1.82	---	---	1953
1954	---	---	0	9.46	6.31	9.30	8.09	1.58	3.50	4.76	1.88	---	4.98	1954
1955	---	---	0.080	18.9	13.5	7.93	3.18	0.676	0.442	0.598	---	---	5.38	1955
1956	---	---	0	3.78	17.3	8.02	8.07	1.58	1.47	1.29	---	---	5.19	1956
1957	---	---	1.11	8.70	6.18	1.77	0.585	0.846	0.386	0.407	---	---	2.21	1957
1958	---	---	0.223	2.84	0.835	0.281	0.300	0.010	0	0.054	---	---	0.549	1958
1959	---	---	0.098	1.22	1.03	1.10	1.38	0.174	0.408	1.83	---	---	0.878	1959
1960	---	---	0.011	9.48	5.48	4.48	0.231	0.018	0	0	---	---	2.44	1960
1961	---	---	0.003	0.889	1.26	0.082	0	0	0	0	---	---	0.278	1961
1962	---	---	0	1.87	0.674	0.323	0.098	0.018	0.009	0.015	---	---	0.334	1962
1963	---	---	0.688	2.02	0.604	1.12	0.377	0.288	0.187	0.107	---	---	0.867	1963
1964	---	---	0	3.80	3.11	0.577	0.052	0.022	0.001	0.003	---	---	0.953	1964
1965	---	---	0	3.98	3.52	1.91	0.351	0.032	1.08	0.770	---	---	1.44	1965
1966	---	---	0.344	8.88	8.80	1.53	3.10	0.594	0.111	0.288	---	---	2.40	1966
1967	---	---	0.080	4.03	7.84	1.03	0.268	0.097	0.003	0.077	---	---	1.88	1967
1968	---	---	1.32	2.83	0.835	0.221	0.270	0.438	0.189	0.184	---	---	0.758	1968
1969	---	---	0.088	8.88	1.22	0.802	3.18	0.894	0.138	0.488	---	---	1.80	1969
1970	---	---	0.189	4.89	16.8	2.54	1.88	0.929	0.428	0.807	---	---	3.88	1970
1971	---	---	0	8.53	1.94	8.09	2.98	1.22	0.327	1.88	---	---	2.94	1971
1972	---	---	0.306	14.8	8.18	0.880	0.087	0.142	0.088	0.084	---	---	2.74	1972
1973	---	---	0.487	1.06	0.718	1.08	0.203	0.027	0.518	1.31	---	---	0.889	1973
1974	---	---	0.202	14.2	18.8	4.08	0.389	0.130	0.214	0.384	---	---	4.73	1974
1975	---	---	0.181	8.18	8.18	2.88	0.881	1.08	8.87	4.27	---	---	3.82	1975
1976	---	---	0.803	20.8	4.80	8.07	2.21	0.443	0.344	0.855	---	---	4.38	1976
1977	---	---	0.382	1.80	2.08	0.877	1.43	0.510	1.08	1.38	---	---	1.17	1977
1978	---	---	0.287	7.37	3.21	1.14	0.424	0.078	0.825	0.838	---	---	1.74	1978
1979	---	---	0.131	12.1	17.5	5.49	0.488	0.071	0.007	0.081	---	---	4.48	1979
1980	---	---	0.008	3.18	0.572	0.022	0.335	0.831	0.301	0.858	---	---	0.734	1980
1981	---	---	1.18	1.72	0.957	1.53	0.148	0.038	0.058	0.022	---	---	0.703	1981
1982	---	---	0.013	3.71	1.58	0.288	0.019	0.022	0.001	0.704	---	---	0.788	1982
1983	---	---	0.002	7.28	8.08	2.08	1.78	0.180	0.001	0.002	---	---	2.18	1983
1984	---	---	0.528	1.87	1.84	1.27	0.188	0	0	0.183	---	---	0.678	1984
1985	---	---	0.082	8.73	1.45	1.84	0.185	1.84	0.785	1.83	---	---	1.77	1985
1986	---	---	1.88	15.2	11.0	2.10	1.21	0.288	0.283	0.472	---	---	4.01	1986
1987	---	---	0.718	9.37	1.09	0.280	0.124	0.104	0.033	0.189	---	---	1.48	1987
1988	---	---	0.038	4.82	8.84	0.483	0.048	0.001	0	0.001	---	---	1.48	1988
MEAN	---	---	0.311	8.48	5.33	2.30	1.28	0.470	0.578	0.787	1.74	---	3.17	MEAN

LOCATION - LAT 50 31 50 N DRAINAGE AREA, 1 120 km²
LONG 100 57 00 W NATURAL FLOW

BIRDTAIL CREEK NEAR BIRTLE - STATION NO. 05ME003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1953	---	---	---	---	1953
1954	---	15.8 ON JUL 7	0 B ON MAR 1 *	105 000	1954
1955	---	30.3 ON APR 11	0 B ON MAR 1	114 000	1955
1956	---	30.9 ON MAY 13	0 B ON MAR 1	110 000	1956
1957	---	22.6 ON APR 27	0.1428 ON MAR 1	48 700	1957
1958	---	8.188 ON APR 4	0 B ON MAR 1	11 800	1958
1959	---	7.88 ON JUL 4	0 B ON MAR 1	18 600	1959
1960	---	18.5 B ON APR 12	0 ON AUG 18	91 700	1960
1961	---	4.42 ON APR 28	0 B ON MAR 1	5 910	1961
1962	---	8.34 ON APR 20	0 ON MAR 1	7 070	1962
1963	---	4.308 ON APR 8	0 B ON MAR 1	14 100	1963
1964	---	9.178 ON APR 18	0 B ON MAR 1	20 200	1964
1965	---	11.5 B ON APR 15	0 B ON MAR 1	30 500	1965
1966	---	11.4 B ON APR 4	0.017 ON SEP 26	60 800	1966
1967	---	13.6 ON MAY 12	0 ON AUG 31	35 500	1967
1968	---	7.828 ON MAR 30	0.074 ON SEP 30	18 100	1968
1969	---	21.0 ON APR 17	0 ON SEP 20	40 200	1969
1970	---	43.8 ON MAY 5	0.037 ON SEP 10	78 100	1970
1971	---	21.4 B ON APR 13	0 B ON MAR 1	62 200	1971
1972	---	41.1 ON APR 23	0.022 ON JUL 20	87 800	1972
1973	---	3.09 ON OCT 7	0.001 ON AUG 18	14 200	1973
1974	48.4 AT 00:03 CST ON APR 22	43.0 ON APR 22	0.088 ON AUG 13	100 000	1974
1975	28.7 AT 06:38 CST ON MAY 1	28.2 ON MAY 1	0.078 ON AUG 4	78 500	1975
1976	49.6 AT 03:18 CST ON APR 11	48.2 ON APR 11	0.130 ON SEP 18	92 600	1976
1977	4.39 AT 11:55 CST ON MAY 8	4.33 ON MAY 8	0.022 ON AUG 29	24 600	1977
1978	---	12.8 ON APR 21	0 ON AUG 12	36 800	1978
1979	50.8 B AT 20:30 CST ON APR 21 *	48.7 B ON APR 21 *	0 ON AUG 31	84 300	1979
1980	---	5.218 ON APR 14	0 ON JUN 11	15 600	1980
1981	7.86 AT 14:17 CST ON APR 1	6.70 ON APR 1	0 ON AUG 3	14 800	1981
1982	8.958 AT 17:57 CST ON APR 20	8.678 ON APR 21	0 B ON MAR 1	18 600	1982
1983	---	21.6 B ON APR 22	0 B ON MAR 1	45 800	1983
1984	3.84 AT 21:24 CST ON JUN 24	3.84 ON JUN 25	0 ON AUG 7	14 400	1984
1985	10.8 AT 02:45 CST ON APR 24	10.3 ON APR 18	0.001 ON JUL 31	37 400	1985
1986	---	29.0 B ON APR 2	0.088 ON SEP 23	84 800	1986
1987	25.8 AT 01:02 CST ON APR 8	20.4 ON APR 7	0.013 ON SEP 15	30 800	1987
1988	15.6 B AT 08:37 CST ON APR 7	13.4 B ON APR 7	0 ON AUG 7	31 000	1988
				45 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.051	1.72	0.742	1.02	0.818	0.186	0.109	0.147	---	---	0.595	1969
1970	---	---	0.057	0.944	3.29	0.398	0.257	0.056	0.101	0.121	---	---	0.854	1970
1971	---	---	0.018	1.36	0.271	0.954	0.338	0.080	0.100	0.290	---	---	0.422	1971
1972	---	---	0.032	1.22	0.494	0.183	0.048	0.028	0.018	0.032	---	---	0.280	1972
1973	---	---	0.115	0.153	0.178	0.185	0.012	0.017	0.048	0.070	---	---	0.100	1973
1974	---	---	0.014	1.27	1.44	0.343	0.085	0.029	0.048	0.048	---	---	0.408	1974
1975	---	---	0.011	0.827	0.563	0.546	0.159	0.890	1.50	0.400	---	---	0.806	1975
1976	---	---	0.112	2.02	0.369	0.366	0.081	0.023	0.006	0.047	---	---	0.372	1976
1977	---	---	0.024	0.114	0.200	0.113	0.083	0.006	0.224	0.078	---	---	0.105	1977
1978	---	---	0.038	0.721	0.240	0.132	0.026	0	0.062	0.041	---	---	0.155	1978
1979	---	---	0.027	0.932	2.83	0.467	0.124	0.081	0.048	0.085	---	---	0.548	1979
1980	---	---	0.032	0.258	0.041	0.001	0.015	0.288	0.137	0.138	---	---	0.109	1980
1981	---	0.078	0.213	0.205	0.094	0.172	0.032	0.002	0.023	0.105	---	---	0.105	1981
1982	---	---	0.001	1.01	0.168	0.085	0.285	0.030	0.017	0.117	---	---	0.210	1982
1983	---	---	0.021	0.982	0.475	0.255	0.128	0.003	0	0.018	---	---	0.231	1983
1984	---	---	0.057	0.205	0.209	0.367	0.008	0	0.008	0.207	---	---	0.134	1984
1985	---	---	0.008	0.884	0.228	0.235	0.191	0.379	0.198	0.276	---	---	0.288	1985
1986	---	---	0.348	1.18	2.38	0.371	0.605	0.225	0.150	0.167	---	---	0.879	1986
1987	---	---	0.056	1.22	0.297	0.195	0.098	0.021	0.018	0.105	---	---	0.280	1987
1988	---	---	0.003	0.884	0.334	0.018	0	0	0	0	---	---	0.113	1988
MEAN	---	0.078	0.052	0.887	0.732	0.320	0.188	0.115	0.141	0.126	---	---	0.317	MEAN

LOCATION - LAT 50 26 50 N DRAINAGE AREA, 62.9 km²
LONG 98 27 00 W NATURAL FLOW

BIRNIE CREEK NEAR BIRNIE - STATION NO. 05LL017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.7 ON JUN 27	0.026 ON SEP 14	12 800	1969
1970	15.3 AT 03:50 CST ON MAY 7 *	12.9 ON MAY 7 *	0.042 ON AUG 19	13 800	1970
1971	6.43 AT 20:53 CST ON JUN 6	4.93 ON APR 20	0.0198 ON MAR 1	8 940	1971
1972	---	4.13 ON APR 22	0 ON AUG 27 *	5 280	1972
1973	1.51 AT 11:18 CST ON OCT 4	0.833 ON MAY 7	0 ON JUL 12	2 110	1973
1974	8.24 AT 03:28 CST ON MAY 12	8.77 ON MAY 12	0.0148 ON MAR 1	8 640	1974
1975	14.8 AT 10:05 CST ON SEP 19	10.8 ON SEP 19	0.0118 ON MAR 1	12 800	1975
1976	---	5.32 ON APR 10	0 ON AUG 24	7 880	1976
1977	1.42 AT 00:38 CST ON SEP 26	1.27 ON SEP 26	0 ON JUL 9	2 210	1977
1978	2.37 AT 21:59 CST ON APR 24	1.98 ON APR 16	0 A ON AUG 1	3 300	1978
1979	14.9 AT 08:30 CST ON MAY 17	11.7 ON MAY 17	0 ON AUG 30	11 500	1979
1980	2.64 AT 04:46 CST ON AUG 21	2.18 ON AUG 21	0 ON MAY 29	2 320	1980
1981	1.14 AT 17:42 CST ON APR 1	0.880 ON MAR 31	0 ON JUL 27	2 230	1981
1982	---	3.95 B ON APR 15	0 B ON MAR 1	4 480	1982
1983	---	5.26 B ON APR 24	0 ON AUG 9	4 880	1983
1984	4.79 AT 08:28 CST ON JUN 23	3.62 ON JUN 23	0 B ON MAR 1	2 830	1984
1985	2.59 AT 01:10 CST ON APR 15	2.57 B ON APR 15	0 B ON MAR 1	8 280	1985
1986	13.0 A AT 20:00 CST ON MAY 5	8.31 E ON MAY 5	0.0328 ON MAR 13	14 400	1986
1987	4.24 AT 23:53 CST ON APR 7	3.70 ON APR 10	0 ON AUG 8	5 290	1987
1988	2.98 AT 18:15 CST ON APR 4	2.33 B ON APR 4	0 B ON MAR 1	2 400	1988
				8 710	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.510	12.4	15.8	5.30	0.881	0.778	0.634	0.234	0.504	0.231	---	1960
1961	0.153	0.136	0.485	8.46	10.7	2.79	0.140	0.035	0.024	0.090	0.151	0.189	1.95	1961
1962	0.161	0.194	0.285	4.01	17.1	15.7	5.32	12.9	8.74	2.80	2.83	3.74	5.24	1962
1963	0.819	1.03	0.769	14.3	15.9	15.3	3.45	4.61	1.57	0.835	0.490	0.241	4.05	1963
1964	0.074	0.191	0.174	7.47	20.6	4.97	4.48	5.38	13.0	5.85	1.82	0.788	5.19	1964
1965	0.830	0.452	0.829	10.7	24.0	8.92	2.67	1.30	1.14	2.49	2.19	1.24	4.82	1965
1966	0.895	0.581	0.806	11.4	19.6	10.6	3.94	0.462	0.031	0.190	1.37	1.58	4.29	1966
1967	1.21	0.887	0.956	15.1	17.8	4.61	0.880	0.817	0.102	0.049	0.282	0.195	3.53	1967
1968	0.943	0.947	0.122	3.28	12.4	9.13	5.13	7.21	10.5	6.28	2.77	1.15	4.93	1968
1969	0.828	0.793	0.787	*2.0	8.56	5.89	4.88	1.23	0.884	4.31	2.18	0.726	3.58	1969
1970	0.397	0.508	0.476	4.87	16.8	10.0	2.29	0.507	0.187	2.68	5.10	2.01	3.80	1970
1971	1.08	0.704	0.857	14.5	11.2	2.02	2.01	0.241	0.081	0.836	1.75	1.58	3.03	1971
1972	0.670	0.558	0.205	10.4	11.1	1.44	0.598	0.658	1.31	1.83	1.82	0.922	2.83	1972
1973	0.851	0.563	0.864	6.04	5.81	15.3	3.05	3.32	2.44	9.36	5.71	3.14	4.71	1973
1974	1.30	0.873	0.996	16.1	31.8	7.18	0.407	0.085	2.00	1.18	1.00	0.868	5.45	1974
1975	0.531	0.558	0.467	4.19	8.78	3.86	1.84	2.47	2.56	1.61	1.13	0.287	2.43	1975
1976	0.184	0.208	0.268	11.0	8.18	2.91	1.62	0.188	0.048	0.010	0.016	0.023	1.89	1976
1977	0.016	0.021	0.050	0.772	0.668	3.44	5.66	5.63	17.6	5.33	2.38	1.18	3.55	1977
1978	0.581	0.381	0.367	8.28	14.4	9.53	8.30	2.09	1.08	0.686	0.471	0.196	3.58	1978
1979	0.148	0.117	0.227	12.8	25.8	14.7	1.35	0.442	0.345	0.232	0.323	0.315	4.73	1979
1980	0.314	0.322	0.242	6.83	5.81	0.737	0.288	0.084	1.31	3.48	1.96	0.735	1.83	1980
1981	0.548	0.472	0.477	3.582	0.913	4.82	3.06	4.12	2.54	2.38	2.97	1.25	2.00	1981
1982	0.359	0.285	0.264	7.36	8.56	5.27	5.32	2.31	0.514	1.33	0.978	0.622	2.86	1982
1983	0.414	0.322	0.410	2.48	5.89	7.88	4.63	0.484	0.088	0.151	0.248	0.201	1.85	1983
1984	0.187	0.173	0.178	2.91	4.37	7.81	3.31	0.837	0.203	3.00	8.16	1.70	2.84	1984
1985	0.842	0.593	0.885	---	---	2.98	0.958	3.06	3.19	3.63	3.89	1.55	---	1985
1986	0.578	0.584	0.699	16.7	15.7	1.88	0.186	0.027	0.183	1.30	1.03	1.03	3.29	1986
1987	0.622	0.388	0.717	7.88	2.58	0.956	0.153	0.181	0.026	0.041	0.087	0.036	1.09	1987
1988	0.085	0.036	0.021	2.12	2.48	2.24	1.34	0.349	0.342	0.478	0.466	0.358	0.856	1988
1989	---	---	---	---	---	---	---	---	---	---	---	---	---	1989
MEAN	0.520	0.428	0.430	8.48	12.8	5.52	2.89	2.15	2.51	2.13	1.81	0.957	2.44	MEAN

LOCATION - LAT 50 51 43 N DRAINAGE AREA, 712 km²
LONG 86 15 10 W NATURAL FLOW

BLACK RIVER NEAR MANIGOTAGAN - STATION NO. 05RA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	32.3 ON APR 23	---	---	1960
1961	---	25.3 ON APR 24	0.032E ON SEP 15	61 500	1961
1962	---	34.8 ON AUG 30	0.155 ON JAN 1	187 000	1962
1963	---	22.9 ON APR 25	0.105 ON DEC 27	158 000	1963
1964	---	48.4 ON MAY 6	0.048 ON JAN 26	195 000	1964
1965	---	32.8 E ON APR 27	0.385E ON MAR 9	152 000	1965
1966	---	21.2 ON MAY 16	0.017 ON SEP *1	135 000	1966
1967	---	31.7 E ON APR 26	0 ON SEP 26 *	111 000	1967
1968	27.2 AT 23:00 CST ON AUG 26	25.6 ON AUG 25	0.031E ON JAN 23	156 000	1968
1989	---	24.0 ON APR 17	0.518 ON DEC 28	113 000	1989
1970	21.4 AT 13:51 CST ON JUN 2	21.1 ON JUN 2	0.042 ON SEP 7	120 000	1970
1971	42.3 AT 23:13 CST ON APR 20	40.5 ON APR 21	0 ON SEP 13	95 500	1971
1972	29.4 AT 19:20 CST ON APR 23	28.9 ON APR 23	0 ON APR 1	83 200	1972
1973	59.7 AT 14:27 CST ON JUN 16	56.3 ON JUN 16	0.500 ON MAR 8	146 000	1973
1974	68.8 AT 18:40 CST ON APR 30 *	68.0 ON APR 30 *	0.020 ON AUG 19	172 000	1974
1975	13.6 AT 17:20 CST ON MAY 6	13.6 ON MAY 6	0.181 ON AUG 2	76 800	1975
1976	19.7 AT 16:20 CST ON APR 19	19.5 ON APR 19	0.007 ON OCT 17	58 600	1976
1977	---	40.8 A ON SEP 11	0.013B ON JAN 17	112 000	1977
1978	26.0 AT 18:28 CST ON APR 26	25.8 ON APR 27	0.130 ON DEC 28	122 000	1978
1979	41.4 AT 09:13 CST ON JUN 1	41.0 ON JUN 1	0.103B ON FEB 17	149 000	1979
1980	15.6 AT 17:54 CST ON APR 21	15.6 ON APR 22	0.014 ON AUG 7	57 800	1980
1981	12.8 AT 05:27 CST ON AUG 11	12.1 ON AUG 10	0.347 ON MAR 15	63 100	1981
1982	48.1 AT 14:00 CST ON APR 16	32.8 B ON APR 16	0.172B ON MAR 7	90 200	1982
1983	13.8 AT 11:13 CST ON JUN 23	13.5 ON JUN 23	0.063 ON SEP 10	81 800	1983
1984	12.5 AT 08:47 CST ON JUN 24	12.4 ON JUN 24	0.111B ON MAR 11	80 400	1984
1985	---	---	---	---	1985
1986	27.9 AT 18:30 CST ON MAY 2	27.8 ON MAY 2	0.003 ON SEP 1	104 000	1986
1987	11.8 AT 14:34 CST ON APR 11	11.5 ON APR 11	0.010 ON SEP 29	34 300	1987
1988	4.38 AT 07:10 CST ON APR 16	4.18 ON APR 16	0.020 ON MAR 21	27 100	1988
MEAN				105 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BLOODVEIN RIVER ABOVE BLOODVEIN BAY - STATION NO. 05KB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	18.1	15.1	14.5	23.7	32.8	43.2	33.4	18.8	8.70	4.87	3.13	2.44	17.8	1976
1977	2.27	2.80	3.32	11.5	10.1	20.4	27.6	39.1	76.8	108	58.0	34.8	33.2	1977
1978	24.1	17.1	13.2	38.2	83.7	88.4	168	118	82.0	62.8	49.8	30.2	68.7	1978
1979	21.2	17.3	16.4	66.2	196	235	78.2	46.2	61.8	36.3	30.0	26.8	70.4	1979
1980	24.8	22.0	19.3	52.7	74.1	48.3	27.5	18.7	43.1	47.2	44.8	30.6	37.6	1980
1981	21.8	18.6	14.8	26.8	27.1	54.3	69.2	46.4	66.8	58.8	55.8	28.1	39.6	1981
1982	17.0	14.7	12.2	54.2	89.6	127	66.2	80.8	44.3	39.4	30.1	19.4	51.6	1982
1983	14.7	13.3	12.8	36.8	61.4	106	122	49.4	23.7	17.1	15.0	8.93	38.7	1983
1984	6.73	6.78	6.82	38.3	80.6	70.4	75.6	43.3	22.7	37.7	58.4	44.8	38.4	1984
1985	33.6	26.2	20.0	67.1	84.8	78.0	---	---	---	---	58.8	56.3	33.8	---	1985
1986	26.8	18.1	18.0	117	187	82.6	46.8	22.1	16.6	24.4	18.7	17.6	48.6	1986
1987	15.6	13.0	13.6	73.3	61.1	40.0	26.0	27.8	11.8	8.44	8.71	8.77	24.3	1987
1988	3.44	3.01	3.10	34.0	72.8	38.5	21.0	9.73	6.78	7.80	8.14	7.86	18.1	1988
MEAN	17.4	14.4	12.8	49.8	80.1	80.9	63.8	43.2	38.7	38.3	33.6	22.2	40.7	MEAN

LOCATION - LAT 51 42 52 N
LONG 96 38 44 W
DRAINAGE AREA, 9 080 km²
NATURAL FLOW

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	48.1E ON JUN 27	2.26E ON DEC 30	863 000	1976
1977	---	126 A ON OCT 6	2.21 ON JAN 28 *	1 050 000	1977
1978	185 AT 13:51 CST ON JUL 17	183 ON JUL 17	12.7 B ON MAR 21	2 110 000	1978
1979	373 AT 21:00 CST ON JUN 2 *	372 ON JUN 3 *	16.3 B ON MAR 9	2 220 000	1979
1980	101 AT 18:37 CST ON APR 24	100 ON APR 24	16.2 ON AUG 18	1 180 000	1980
1981	120 AT 09:06 CST ON SEP 6	120 ON SEP 8	13.3 B ON MAR 21	1 250 000	1981
1982	185 AT 12:06 CST ON JUN 9	184 ON JUN 8	11.1 B ON MAR 28	1 620 000	1982
1983	243 AT 14:06 CST ON JUN 26	240 ON JUN 26	7.86B ON DEC 31	1 250 000	1983
1984	83.6 AT 01:18 CST ON JUN 27	82.3 ON JUN 27	6.85B ON MAR 13	1 250 000	1984
1985	122 AT 17:00 CST ON APR 26	121 ON APR 26	16.1 B ON MAR 20	---	1985
1986	181 AT 20:01 CST ON MAY 7	181 ON MAY 6	14.6 ON SEP 16	1 570 000	1986
1987	100 AT 02:28 CST ON APR 14	100 ON APR 14	2.48B ON DEC 31	748 000	1987
1988	86.1 AT 19:24 CST ON MAY 12	87.8 ON MAY 12	2.58B ON FEB 12	972 000	1988
				1 240 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOGGY CREEK ABOVE LAKE IRWIN - STATION NO. 05LL013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.300	0.680	0.623	0.309	0.118	0.070	0.170	0.260	---	---	0.342	1961
1962	---	---	0	1.42	1.02	0.621	0.314	0.285	0.184	0.218	---	---	0.493	1962
1963	---	---	0.083	0.382	0.318	0.689	0.606	0.366	0.218	0.234	---	---	0.332	1963
1964	---	---	0.023	0.680	0.680	0.438	0.306	0.153	0.234	0.224	---	---	0.340	1964
1965	---	---	0.241	2.26	0.844	0.480	0.287	0.258	0.471	0.323	---	---	0.813	1965
1966	---	---	0.373	1.36	0.718	0.387	0.244	0.188	0.126	0.216	---	---	0.449	1966
1967	---	---	0.188	1.31	0.808	0.380	0.253	0.156	0.073	0.270	---	---	0.421	1967
1968	---	---	0.268	0.696	0.476	0.244	0.240	0.376	0.268	0.289	---	---	0.359	1968
1969	---	---	0.216	3.30	1.08	0.572	0.698	0.704	0.484	0.859	---	---	0.965	1969
1970	---	---	0.210	3.04	4.30	1.13	0.648	0.631	0.539	0.472	---	---	1.38	1970
1971	---	---	0.278	1.18	0.819	1.76	2.26	0.650	0.228	0.568	---	---	0.976	1971
1972	---	---	0.306	2.73	1.27	0.844	0.288	0.143	0.202	0.454	---	---	0.748	1972
1973	---	---	0.404	0.432	0.384	0.351	0.246	0.326	0.238	0.402	---	---	0.380	1973
1974	---	---	0.236	3.82	2.32	0.868	0.206	0.261	0.376	0.402	---	---	1.07	1974
1975	---	---	0.383	1.34	1.47	0.703	0.427	0.681	0.712	0.605	---	---	0.776	1975
1976	---	---	0.352	4.10	0.788	0.825	0.238	0.130	0.122	0.329	---	---	0.822	1976
1977	---	---	0.446	0.487	0.895	0.553	0.305	0.308	0.548	0.358	---	---	0.526	1977
1978	---	---	0.293	1.52	0.638	0.388	0.188	0.128	0.261	0.263	---	---	0.482	1978
1979	---	---	0.353	3.87	2.73	0.382	0.101	0.018	0.088	0.353	---	---	0.889	1979
1980	---	---	0.240	0.630	0.380	0.188	0.121	0.385	0.227	0.300	---	---	0.328	1980
1981	---	---	0.480	0.384	0.330	0.258	0.130	0.272	0.188	0.367	---	---	0.304	1981
1982	---	---	0.158	1.20	0.378	0.282	0.380	0.100	0.374	0.438	---	---	0.408	1982
1983	---	---	0.350	2.12	0.557	0.486	0.298	0.102	0.254	0.331	---	---	0.585	1983
1984	---	---	0.243	0.415	0.380	0.278	0.122	0.116	0.322	0.593	---	---	0.308	1984
1985	---	---	0.251	0.848	0.382	0.461	0.058	0.107	0.708	0.357	---	---	0.384	1985
1986	---	---	0.815	1.97	0.777	0.250	0.308	0.202	0.274	0.293	---	---	0.622	1986
1987	---	---	0.228	0.804	0.031	0.022	0.035	0.084	0.051	0.154	---	---	0.151	1987
1988	---	---	0.283	0.436	0.374	0.149	0.188	0.040	0.070	0.182	---	---	0.212	1988
MEAN	---	---	0.288	1.56	0.904	0.486	0.270	0.254	0.282	0.347	---	---	0.580	MEAN

LOCATION - LAT 50 10 54 N
LONG 99 23 55 W
DRAINAGE AREA, 515 km²
NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "WHITEHUD RIVER ABOVE NEEPAWA RESERVOIR"

BOGGY CREEK ABOVE LAKE IRWIN - STATION NO. 05LL013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	1.30 ON APR 13	0.051 ON AUG 19	7 250	1981
1982	---	4.73 ON APR 23	0 B ON MAR 1 *	10 400	1982
1983	---	1.10 ON JUN 5	0.0038 ON MAR 1	7 020	1983
1984	---	1.83 ON APR 16	0.0308 ON MAR 1	7 200	1984
1985	---	8.85 ON APR 18	0.207 ON JUL 10	13 000	1985
1986	---	3.37 ON APR 8	0.045 ON AUG 28	8 510	1986
1987	---	8.20 ON APR 22	0.057 ON SEP 17	8 510	1987
1988	---	1.05 ON APR 21	0.095 ON AUG 14	7 510	1988
1989	---	12.7 ON APR 18	0.1908 ON MAR 28	20 500	1989
1970	---	20.1 ON APR 28 *	0.2108 ON MAR 1	28 500	1970
1971	---	2.82 ON JUN 23	0.093 ON SEP 4	20 700	1971
1972	---	7.11 B ON APR 16	0.122 ON AUG 5	15 800	1972
1973	---	0.8588 ON MAR 21	0.170 ON JUL 11	7 830	1973
1974	21.3 AT 12:53 CST ON APR 21 *	20.1 ON APR 21	0.147 ON JUL 22	22 800	1974
1975	3.45 B AT 08:05 CST ON APR 23	3.26 B ON APR 23	0.334 ON JUL 16	18 400	1975
1976	17.6 B AT 20:34 CST ON APR 9	16.3 B ON APR 9	0.084 ON AUG 27	17 400	1976
1977	2.47 AT 21:34 CST ON JUL 11	2.30 ON JUL 14	0.088 ON AUG 28	11 100	1977
1978	5.04 B AT 13:15 CST ON APR 15	3.31 ON APR 15	0.031 ON SEP 10	8 550	1978
1979	30.4 B AT 17:12 CST ON APR 25	18.9 B ON APR 25	0 ON AUG 7	20 300	1979
1980	---	2.27 B ON APR 7	0.003 ON AUG 1	8 840	1980
1981	0.808 AT 07:23 CST ON MAY 8	0.7008 ON MAR 28	0.063 ON JUL 14	8 430	1981
1982	3.83 AT 13:30 CST ON APR 17	3.84 B ON APR 16	0.024 ON AUG 13	8 640	1982
1983	7.14 AT 03:37 CST ON APR 25	7.03 ON APR 25	0.089 ON AUG 10	11 800	1983
1984	0.878 AT 23:21 CST ON MAY 4	0.816 ON OCT 22	0.052 ON JUL 31	8 530	1984
1985	---	5.82 A ON SEP 20	0.0288 ON MAR 20	8 240	1985
1986	10.4 AT 12:38 CST ON APR 4	8.36 B ON APR 4	0.171 ON JUN 10	13 200	1986
1987	9.79 AT 01:53 CST ON APR 10	3.17 ON APR 10	0.010 ON JUN 19	3 200	1987
1988	---	0.9198 ON APR 3	0.014 ON AUG 17	4 480	1988
				11 900	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOGGY CREEK NEAR HEEPAWA - STATION NO. 05LL011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	---	---	0.060	0.109	0.228	---	---	---	1980
1981	---	---	0.274	0.535	0.680	0.627	0.223	0.204	0.219	0.147	---	---	0.386	1981
1982	---	---	0.170	3.09	0.987	0.485	0.240	0.384	0.225	0.188	---	---	0.715	1982
1983	---	---	0.818	1.41	0.550	1.15	0.777	0.208	0.202	0.153	---	---	0.631	1983
1984	---	---	0.273	0.788	0.688	0.287	0.243	0.188	0.188	0.188	---	---	0.373	1984
1985	---	---	0.241	5.96	1.06	0.688	1.03	0.464	1.06	0.438	---	---	1.34	1985
1986	---	---	1.10	2.32	1.38	0.583	0.207	0.227	0.208	0.188	---	---	0.777	1986
1987	---	---	0.230	3.02	1.14	0.239	0.188	0.188	0.238	0.173	---	---	0.673	1987
1988	---	---	0.304	0.684	0.386	0.221	0.238	0.324	0.407	0.248	---	---	0.372	1988
1989	---	---	0.210	5.39	1.49	0.796	2.81	0.488	0.403	0.521	---	---	1.83	1989
1970	---	---	0.323	5.85	7.94	1.37	0.838	0.290	0.488	0.595	---	---	2.58	1970
1971	---	---	0.283	1.85	1.09	3.87	3.86	1.02	0.803	1.04	---	---	1.87	1971
1972	---	---	0.886	8.40	1.83	1.07	0.232	0.134	0.086	0.212	---	---	1.37	1972
1973	---	---	0.488	0.522	0.714	0.418	0.169	0.287	0.813	0.418	---	---	0.476	1973
1974	---	---	0.204	10.2	4.69	1.26	0.148	0.113	0.238	0.383	---	---	2.12	1974
1975	---	---	0.284	3.37	2.82	0.884	0.207	0.988	1.32	0.871	---	---	1.31	1975
1976	---	---	0.398	8.10	1.02	0.748	0.203	0.082	0.117	0.182	---	---	1.45	1976
1977	---	---	0.478	0.675	1.07	0.813	1.23	0.306	1.08	0.584	---	---	0.788	1977
1978	---	---	0.434	3.05	1.56	0.428	0.138	0.153	0.292	0.200	---	---	0.777	1978
1979	---	---	0.334	10.1	5.38	0.736	0.625	0.128	0.231	0.186	---	---	2.19	1979
1980	---	---	0.203	0.838	0.281	0.181	0.181	0.228	0.328	0.388	---	---	0.335	1980
1981	---	---	0.598	0.337	0.388	0.327	0.185	0.190	0.073	0.280	---	---	0.295	1981
1982	---	---	0.284	1.67	0.620	0.358	0.781	0.307	0.248	0.285	---	---	0.684	1982
1983	---	---	0.288	5.88	1.13	0.406	0.418	0.201	0.202	0.283	---	---	1.21	1983
1984	---	---	0.186	0.482	0.622	0.378	0.222	0.210	0.173	0.212	---	---	0.311	1984
1985	---	---	0.481	2.37	0.253	0.218	0.388	0.638	0.388	0.438	---	---	0.626	1985
1986	---	---	1.84	3.02	1.76	0.221	0.408	0.181	0.180	0.216	---	---	0.978	1986
1987	---	---	0.470	8.37	0.281	0.227	0.388	0.680	0.182	0.244	---	---	0.987	1987
1988	---	---	0.308	0.388	0.448	0.174	0.178	0.208	0.186	0.181	---	---	0.253	1988
MEAN	---	---	0.438	3.87	1.82	0.887	0.883	0.308	0.388	0.323	---	---	0.888	MEAN

LOCATION - LAT 50 13 34 N LONG 98 27 17 W DRAINAGE AREA, 884 km^2 REGULATED SINCE 1980

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "WHITEMUD RIVER NEAR HEEPAWA"

BOGGY CREEK NEAR NEEPAWA - STATION NO. 05LL011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---	---	---	1980
1981	---	1.83 ON MAY 31	0.003 ON OCT 24	8 220	1981
1982	---	8.34 ON APR 22	0 ON SEP 8 *	15 100	1982
1983	---	4.08 ON JUN 27	0.118 ON OCT 19	13 400	1983
1984	---	2.00 ON MAY 6	0.106 ON JUN 3	7 880	1984
1985	---	19.7 ON APR 16	0 ON AUG 14	29 400	1985
1986	---	5.01 ON MAR 22	0.106 ON SEP 29	16 400	1986
1987	---	9.15 ON APR 16	0.125 ON JUN 9	14 300	1987
1988	---	1.23 ON APR 11	0.113 ON JUL 9	7 800	1988
1989	---	22.2 ON APR 16	0.201 ON JUN 20	34 500	1989
1970	---	46.7 ON APR 29 *	0.082 ON AUG 19	54 800	1970
1971	---	11.4 ON JUN 16	0.216 ON SEP 28	35 400	1971
1972	---	13.8 ON APR 16	0 ON JUL 12	28 800	1972
1973	---	3.65 ON SEP 4	0 ON JUL 14	10 100	1973
1974	---	41.1 ON APR 21	0.022 ON AUG 17	44 800	1974
1975	---	17.2 ON APR 29	0.007 ON JUL 9	27 800	1975
1976	---	29.4 ON APR 10	0.042 ON AUG 8	30 800	1976
1977	---	4.53 ON JUL 13	0.059 ON AUG 23	16 000	1977
1978	---	5.07 E ON APR 16	0.059 ON JUN 28	16 400	1978
1979	---	36.6 B ON APR 25	0.068 ON OCT 9	48 300	1979
1980	---	1.46 B ON APR 9	0.110 ON AUG 14	7 090	1980
1981	0.991 AT 19:36 CST ON MAR 17	0.855 ON MAR 31	0 ON AUG 28	5 250	1981
1982	4.54 B AT 13:57 CST ON APR 16	4.47 B ON APR 16	0.1848 ON APR 4	11 900	1982
1983	26.4 AT 05:23 CST ON APR 21 *	22.1 ON APR 22	0.1828 ON MAR 1	25 500	1983
1984	1.60 AT 10:47 CST ON MAY 6	1.49 ON MAY 5	0.145 ON JUL 28	5 590	1984
1985	5.57 AT 22:55 CST ON APR 5	5.33 B ON APR 5	0.0418 ON MAR 17	13 200	1985
1986	18.4 AT 17:47 CST ON MAR 30	14.7 ON MAR 30	0.158 ON JUN 24	20 700	1986
1987	19.2 AT 21:22 CST ON APR 7	18.4 ON APR 8	0.171 ON MAY 19	20 500	1987
1988	1.10 AT 13:20 CST ON APR 8	0.822 ON APR 8	0.138 ON AUG 29	5 350	1988
				20 600	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.148	0.021	0.008	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.88	0.047	0.007	0	0	0	0	---	---	0.338	1960
1961	---	---	0.017	0.034	0.008	0	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.136	0.012	0.005	0	0	0	0	---	---	0.018	1962
1963	---	---	0.807	0.183	0.022	0.217	0.127	0.002	0.001	0	---	---	0.180	1963
1964	---	---	0.017	1.78	0.780	0.026	0.003	0	0	0.003	---	---	0.317	1964
1965	---	---	0	1.52	0.078	0.052	0.879	0.022	0.147	0.128	---	---	0.325	1965
1966	---	---	0.387	0.837	0.205	0.027	0.002	0.001	0	0	---	---	0.188	1966
1967	---	---	0	0.655	0.259	0.003	0	0	0	0	---	---	0.185	1967
1968	---	---	0.345	0.022	0.012	0.002	0	0.005	0.006	0.004	---	---	0.080	1968
1969	---	---	0	3.61	0.185	0.008	0.251	0.028	0	0.011	---	---	0.489	1969
1970	---	---	0	1.40	0.881	0.034	0.106	0.051	0.028	0.201	---	---	0.311	1970
1971	---	---	0.035	0.388	0.078	0.498	0.130	0.001	0.038	0.027	---	---	0.148	1971
1972	---	---	0.862	0.999	0.078	0.002	0	0	0.001	0.001	---	---	0.216	1972
1973	---	---	0.038	0.017	0.026	0.002	---	0.013	0.027	0.127	---	---	---	1973
1974	---	---	0	2.28	0.563	0.084	---	0	0	0	---	---	---	1974
1975	---	---	0	2.08	0.545	0.345	---	0.031	0.130	0.144	---	---	---	1975
1976	---	---	0.020	7.08	0.244	0.071	---	0	0	0	---	---	---	1976
MEAN	---	---	0.127	1.38	0.213	0.082	0.083	0.008	0.021	0.038	---	---	0.167	MEAN

LOCATION - LAT 49 50 34 N
LONG 100 58 02 W
DRAINAGE AREA, 184 km^2
NATURAL FLOW

BOSSHILL CREEK NEAR VIRDEN - STATION NO. 05MG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.510 ON MAR 26	0B ON MAR 1 *	481	1959
1960	---	5.51 ON APR 3	0 ON MAR 1	5 030	1960
1961	---	0.170 ON APR 3	0 ON MAR 1	183	1961
1962	---	0.453 ON APR 16	0 ON MAR 1	388	1962
1963	---	1.57 ON MAR 23	0B ON MAR 1	3 390	1963
1964	---	3.03 B ON APR 10	0B ON MAR 1	9 720	1964
1965	---	7.93 E ON APR 14	0E ON MAR 1	5 880	1965
1966	---	4.02 B ON MAR 31	0B ON MAR 1	3 390	1966
1967	---	2.97 ON APR 12	0B ON MAR 1	3 290	1967
1968	---	0.8618 ON MAR 13	0B ON MAR 1	1 079	1968
1969	---	18.1 ON APR 14	0B ON MAR 1	10 400	1969
1970	---	3.11 ON APR 30	0B ON MAR 1	6 590	1970
1971	---	3.08 ON JUN 10	0B ON MAR 1	3 150	1971
1972	---	2.77 B ON MAR 23	0B ON MAR 1	4 870	1972
1973	---	0.246 ON MAR 19	0B ON MAR 1	---	1973
1974	---	10.8 ON APR 19	0B ON MAR 1	---	1974
1975	---	5.05 B ON APR 17	0B ON MAR 1	---	1975
1976	---	24.0 ON APR 10 *	0E ON AUG 1	---	1976
				3 880	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE CHANNEL NEAR HOMEWOOD - STATION NO. 05DF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.017	0.021	---	---	1918
1919	---	---	---	1.34	0.081	0.005	0	0.004	0	---	---	---	---	1919
MEAN	---	---	---	1.34	0.081	0.005	0	0.004	0	0.017	0.021	---	---	MEAN

LOCATION - LAT 49 31 05 N
LONG 97 59 40 W
REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05DF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1918	---	---	---	---	---	---	---	---	---	0.283	0.472	---	---	1918
1919	---	---	---	4.26	0.862	0.904	0.162	0.117	0.114	0.088	---	---	---	1919
1920	---	---	---	---	1.70	0.870	0.217	0.088	0	---	---	---	---	1920
1921	---	---	---	8.74	1.14	0.557	4.08	---	---	---	---	---	---	1921
1922	---	---	---	4.36	1.65	0.316	0.267	0.116	---	---	---	---	---	1922
1923	---	---	---	---	3.84	0.858	0.269	0.131	---	---	---	---	---	1923
1924	---	---	---	---	1.52	0.436	0.182	0.158	0.015	---	---	---	---	1924
1925	---	---	---	5.10	1.17	1.18	0.403	0.078	0.080	0.196	---	---	---	1925
1926	---	---	---	---	0.448	0.476	0.171	0.078	0.291	---	---	---	---	1926
1927	---	---	---	10.6	10.6	3.42	1.31	0.804	0.482	0.528	---	---	---	1927
1928	---	---	---	2.85	0.988	3.27	4.25	0.888	0.180	0.285	---	---	---	1928
1929	---	---	---	---	0.780	0.388	0.087	---	---	---	---	---	---	1929
1930	---	---	---	11.8	3.58	0.840	0.221	0.015	0.015	---	---	---	---	1930
1956	---	---	---	---	15.0	8.84	1.08	0.285	0.348	0.988	0.407	---	---	1956
1957	---	---	2.73	2.77	1.37	1.04	0.581	0.351	0.241	0.261	---	---	---	1957
1958	---	---	0.776	2.39	0.393	0.086	0.185	0.018	0	0	---	---	---	1958
1959	---	---	0.388	5.61	1.86	1.00	0.180	0.050	0.038	1.19	1.20	0.348	---	1959
1980	0.248	0.316	0.384	17.6	2.71	1.02	0.288	0.158	0.063	0.085	0.142	0.073	1.88	1980
1981	0.035	0.089	2.95	4.77	1.71	0.222	0.013	0	0	0	0	0	0.817	1981
1982	0	0	0	8.18	3.13	3.61	0.833	5.02	1.71	0.233	0.206	0.173	1.90	1982
1983	0.052	0.018	2.86	3.48	2.02	5.38	1.17	0.456	0.036	0.088	0.082	0.062	1.30	1983
1984	0.065	0.040	0.027	3.91	1.18	0.820	0.336	0.042	2.03	0.716	0.180	0.078	0.775	1984
1985	0.057	0.049	0.085	15.5	3.61	1.65	1.20	0.428	0.888	1.14	0.882	0.262	2.13	1985
1986	0.181	0.024	3.04	15.0	8.94	0.910	3.15	0.209	0.123	0.076	0.248	0.235	2.82	1986
1987	0.242	0.242	0.238	12.8	3.98	0.827	0.366	0.242	0	0.032	0.044	0.051	1.58	1987
1988	0.034	0.081	1.26	1.75	2.01	0.634	0.779	4.74	2.08	0.678	0.433	0.424	1.23	1988
1989	0.314	0.183	0.183	18.2	4.05	1.75	7.94	1.84	0.284	0.310	1.80	0.157	3.04	1989
1970	0.130	0.134	0.188	18.8	23.1	2.11	0.402	0.041	0.038	0.085	0.448	0.354	3.85	1970
1971	0.184	0.128	0.171	12.9	2.62	1.61	1.19	0.378	0.218	0.788	0.703	0.848	1.77	1971
1972	0.238	0.128	3.20	8.20	3.30	0.388	0.113	0.148	0.092	0.288	0.284	0.057	1.38	1972
1973	0.048	0.088	0.404	0.878	0.705	0.228	0.218	0.101	0.018	0.288	0.407	0.314	0.311	1973
1974	0.080	0.137	0.188	28.7	14.2	2.28	0.610	0.091	0.081	0.140	0.203	0.201	3.71	1974
1975	0.170	0.110	0.182	2.80	2.88	1.84	1.08	0.311	0.238	0.245	0.182	0.088	0.778	1975
1976	0.088	0.088	0.128	14.3	0.882	0.218	0.087	0.138	0.148	0.087	0.032	0.024	1.34	1976
1977	0.020	0.021	0.084	0.088	1.23	0.288	0.028	0.024	0.403	0.872	0.208	0.172	0.280	1977
1978	0.154	0.180	0.111	8.03	2.15	1.38	2.84	0.828	0.408	0.218	0.288	0.088	1.48	1978
1979	0.038	0.214	0.287	23.4	18.1	3.05	0.887	0.088	0.088	0.070	0.118	0.180	3.83	1979
1980	0.177	0.144	0.184	3.38	0.888	0.030	0.084	0.027	0.082	0.033	0.012	0.001	0.388	1980
1981	0	0.128	0.370	0.323	0.240	0.871	0.378	0.278	0.747	0.118	0.028	0.011	0.273	1981
1982	0	0	0.087	1.84	0.875	0.320	0.354	0.008	0.020	0.080	0.020	0.118	0.290	1982
1983	0.128	0.138	0.341	10.3	0.818	0.298	0.230	0.031	0.008	0.103	0.082	0.012	1.02	1983
1984	0	0	0.083	0.882	0.580	0.488	0.088	0.053	0.018	0.018	0.035	0.088	0.124	1984
1985	0.082	0.038	5.04	5.88	0.480	0.170	0.038	1.71	0.208	0.828	0.288	0.320	1.28	1985
1986	0.332	0.088	7.11	11.4	7.77	0.808	1.03	0.420	0.057	0.077	0.248	0.283	2.48	1986
1987	0.130	0.128	2.11	13.4	0.830	0.248	0.141	0.116	0.081	0.433	0.228	0.188	1.48	1987
1988	0.188	0.108	0.171	1.85	1.05	0.094	0.038	0.004	0.002	0.002	0.031	0.035	0.301	1988
MEAN	0.116	0.104	1.10	8.42	3.42	1.08	0.843	0.477	0.305	0.283	0.298	0.183	1.49	MEAN

LOCATION - LAT 49 31 00 N
LONG 97 58 40 W
DRAINAGE AREA, 1 250 km²
REGULATED

BOYNE RIVER NEAR CARMAN - STATION NO. 05OF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	---	---	---	---	1917
1918	---	13.6 ON APR 9	---	---	1918
1919					
1920	---	---	0 ON AUG 23 *	---	1920
1921	---	---	---	---	1921
1922	---	15.3 B ON APR 7	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	29.7 ON MAY 14	---	---	1927
1928	---	12.6 ON JUL 8	---	---	1928
1929	---	---	---	---	1929
1930	---	34.0 ON APR 9	0 ON AUG 11	---	1930
1956	---	55.1 B ON APR 25	0 ON SEP 26	---	1956
1957	---	10.6 B ON MAR 26	---	---	1957
1958	---	5.099 ON APR 1	0 ON JUN 19	---	1958
1959	---	14.8 B ON APR 6	0 B ON MAR 1	---	1959
1960	---	43.0 ON APR 15	0.028 ON SEP 19	59 800	1960
1961	---	18.4 B ON MAR 28	0 ON JUL 31	25 800	1961
1962	---	38.8 B ON APR 23	0 ON JAN 1	59 800	1962
1963	---	14.5 ON JUN 5	0 B ON FEB 20	40 900	1963
1964	---	13.9 B ON APR 14	0 ON AUG 10	24 500	1964
1965	---	50.5 B ON APR 16	0.0485 ON JAN 27	87 300	1965
1966	---	55.2 B ON APR 6	0 B ON FEB 16	78 400	1966
1967	---	37.8 ON APR 23	0 ON AUG 25	48 200	1967
1968	---	35.7 ON AUG 27	0.0238 ON JAN 19	38 000	1968
1969	---	68.7 ON APR 15	0.048 ON SEP 22	85 900	1969
1970	---	105 ON APR 30	0.008 ON NOV 16	115 000	1970
1971	---	54.1 ON APR 13	0.005 ON SEP 29	55 900	1971
1972	---	18.3 B ON APR 16	0.008 ON OCT 6	43 200	1972
1973	---	1.16 ON APR 24	0.001 ON SEP 15	9 800	1973
1974	---	132 ON APR 22 *	0.004 ON AUG 17	117 000	1974
1975	---	11.4 ON JUN 30	0 ON AUG 2	24 500	1975
1976	35.1 AT 07:41 CST ON APR 12	34.8 ON APR 11	0 ON AUG 15	42 400	1976
1977	8.35 AT 18:03 CST ON MAY 21	7.39 ON MAY 21	0 ON JUL 14	8 200	1977
1978	---	23.6 B ON APR 13	0.0078 ON APR 7	45 800	1978
1979	131 B AT 23:43 CST ON APR 22 *	118 ON APR 23	0.0138 ON FEB 3	124 000	1979
1980	---	10.7 B ON APR 8	0 ON JUN 8	12 300	1980
1981	8.41 AT 08:07 CST ON JUN 26	5.47 ON JUN 26	0 B ON JAN 1	8 810	1981
1982	8.218 AT 00:27 CST ON APR 15	8.638 ON APR 15	0 B ON JAN 1	9 150	1982
1983	---	24.4 B ON APR 9	0 ON AUG 5	32 100	1983
1984	1.55 AT 21:26 CST ON JUN 10	1.40 ON JUN 11	0 B ON JAN 1	3 930	1984
1985	21.3 B AT 00:58 CST ON MAR 28	20.8 B ON MAR 27	0.001 ON JUL 22	38 800	1985
1986	43.8 B AT 20:06 CST ON MAR 30	38.4 B ON MAR 31	0 ON SEP 10	77 400	1986
1987	44.5 B AT 08:38 CST ON APR 7	40.5 B ON APR 7	0.023 ON SEP 8	48 800	1987
1988	8.31 AT 00:20 CST ON APR 7	7.44 ON APR 7	0.001 ON AUG 19	9 530	1988
				47 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	0.801	1.21	0.588	0.170	0	0	---	---	---	1983
1984	---	---	0	2.18	0.487	0.818	0.477	0.048	1.66	0.850	---	---	0.818	1984
1985	---	---	0	8.31	0.618	0.371	0.277	0.221	0.214	0.248	---	---	1.02	1985
1986	---	---	1.00	3.84	2.12	0.287	1.40	0.007	0	0	---	---	1.05	1986
MEAN	---	---	0.333	4.04	1.01	0.692	0.686	0.112	0.489	0.276	---	---	0.883	MEAN

LOCATION - LAT 49 38 10 N DRAINAGE AREA, 483 km^2
LONG 98 30 19 W NATURAL FLOW

BOYNE RIVER NEAR RATHWELL - STATION NO. 05OF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	0 ON AUG 29 *	---	1983
1984	---	5.97 ON SEP 2	0B ON MAR 1	17 300	1984
1985	---	33.4 ON APR 14 *	0B ON MAR 1	21 800	1985
1986	---	6.85 ON APR 8	0B ON MAR 1	22 300	1986
				20 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.026	5.50	1.57	0.074	0.016	0.001	0	0.022	---	---	1.01	1967
1968	---	---	0.613	0.813	0.988	0.182	0.221	0.959	0.388	0.139	---	---	0.513	1968
1969	---	---	0	9.98	1.50	0.727	2.93	1.04	0.202	0.329	---	---	2.08	1969
1970	---	---	0	13.2	8.31	0.635	0.122	0.005	0.018	0.040	---	---	2.77	1970
1971	---	---	0	5.70	1.07	0.504	0.518	0.189	0.101	0.337	---	---	1.18	1971
1972	---	---	2.38	3.82	0.980	0.143	0.038	0.062	0.082	0.080	---	---	0.948	1972
1973	---	---	0.849	0.327	0.280	0.085	0.034	0.058	0.045	0.083	---	---	0.182	1973
1974	---	---	0.042	15.5	8.31	0.885	0.081	0.012	0.023	0.045	---	---	2.70	1974
1975	---	---	0.040	1.50	1.18	0.874	0.194	0.027	0.085	0.132	---	---	0.488	1975
1976	---	---	0.147	8.15	0.417	0.085	0.001	0.010	0	0	---	---	1.20	1976
1977	---	---	0.085	0.230	0.838	0.030	0.031	0.025	0.287	0.288	---	---	0.182	1977
1978	---	---	0.085	7.19	2.00	0.784	2.03	0.704	0.172	0.135	---	---	1.83	1978
1979	---	---	0.073	16.8	8.85	1.37	0.134	0.012	0.080	0.300	---	---	3.85	1979
1980	---	---	0.003	2.45	0.188	0.072	0.012	0.004	0.011	0.027	---	---	0.338	1980
1981	---	0.116	0.187	0.180	0.101	0.158	0.344	0.081	0.012	0.030	---	---	0.132	1981
1982	---	---	0.108	0.748	0.280	0.238	0.018	0.008	0	0.055	---	---	0.181	1982
1983	---	---	0.348	7.83	0.258	0.068	0.013	0	0	0	---	---	1.01	1983
1984	---	---	0.181	0.218	0.300	0.137	0	0	0	0.040	---	---	0.108	1984
1985	---	---	3.27	3.45	0.248	0.048	0.018	0.384	0.012	0.188	---	---	0.984	1985
1986	---	---	5.00	5.61	4.31	0.488	1.32	0.388	0.031	0.117	---	---	2.18	1986
1987	---	---	1.80	8.59	0.250	0.030	0.013	0.181	0.170	0.182	---	---	1.34	1987
1988	---	---	0 307	1.18	0.884	0.007	0	0	0	0	---	---	0.251	1988
MEAN	---	0.116	0.878	5.62	1.84	0.337	0.387	0.187	0.074	0.108	---	---	1.13	MEAN

LOCATION - LAT 49 32 39 N DRAINAGE AREA, 574 km²
LONG 98 24 52 W NATURAL FLOW

BOYNE RIVER NEAR ROSEISLE - STATION NO. 05OF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	23.3 ON APR 21	0 B ON MAR 1 *	21 400	1967
1968	---	14.2 E ON AUG 24	0 B ON MAR 1	10 800	1968
1969	---	42.8 ON APR 12	0 B ON MAR 1	43 800	1969
1970	---	51.8 R ON APR 26	0 B ON MAR 1	58 800	1970
1971	---	22.3 B ON APR 9	0 B ON MAR 1	24 600	1971
1972	---	8.178 ON MAR 21	0 B ON MAR 1	20 000	1972
1973	---	1.008 ON MAR 14	0 B ON MAR 1	3 630	1973
1974	---	68.2 ON APR 21	0.008 ON AUG 4	67 200	1974
1975	---	3.81 ON APR 28	0.003 ON AUG 7	8 940	1975
1976	---	27.2 ON APR 8	0 ON JUL 7	25 400	1976
1977	---	1.81 ON MAY 16	0 B ON MAR 1	3 880	1977
1978	---	20.2 ON APR 10	0.0408 ON MAR 1	34 400	1978
1979	---	83.8 A ON APR 21 *	0 ON AUG 12	75 200	1979
1980	8.478 AT 10:18 CST ON APR 10	7.288 ON APR 10	0 B ON MAR 1	7 150	1980
1981	11.3 AT 02:48 CST ON JUL 18	5.53 ON JUL 18	0 ON AUG 15	2 780	1981
1982	---	1.84 ON APR 21	0 B ON MAR 1	3 830	1982
1983	18.3 AT 22:55 CST ON APR 8	15.9 ON APR 11	0 ON JUL 9	21 300	1983
1984	1.85 AT 16:02 CST ON JUN 2	1.23 ON JUN 2	0 B ON MAR 1	2 320	1984
1985	11.3 AT 00:40 CST ON APR 3	10.5 B ON MAR 31	0 B ON MAR 1	20 000	1985
1986	24.3 B AT 12:00 CST ON MAR 30	24.0 B ON MAR 30	0 ON SEP 12	45 800	1986
1987	29.6 B AT 00:43 CST ON APR 6 *	27.2 B ON APR 6	0 ON AUG 9	28 500	1987
1988	8.238 AT 07:46 CST ON APR 5	6.088 ON APR 5	0 ON JUN 7	5 320	1988
				23 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1952	---	---	---	---	---	---	---	---	0.005	0.014	0.025	0.023	---	1952
1953	0.005	0.003	0.113	1.17	0.742	7.82	1.45	2.84	0.075	0.059	0.045	0.057	1.20	1953
1954	0.038	0.081	0.121	1.19	1.63	8.03	5.22	0.378	0.634	1.16	1.18	0.572	1.84	1954
1955	0.189	0.143	0.184	14.1	2.12	3.73	3.65	0.163	0.018	0.068	0.079	0.110	2.03	1955
1956	0.081	0.065	0.104	13.3	7.50	0.869	0.141	0.575	1.08	0.534	0.771	0.197	2.10	1956
1957	0.093	0.125	2.66	2.78	1.33	1.10	0.520	0.282	0.232	0.142	0.185	0.057	0.795	1957
1958	0.018	0.033	1.25	2.14	0.512	0.068	0.114	0.024	0.007	0.040	0.077	0.058	0.382	1958
1959	0.065	0.028	0.571	5.76	1.81	0.788	0.128	0.048	0.078	1.13	0.981	0.295	0.973	1959
1960	0.181	0.087	0.145	15.3	2.48	1.10	0.271	0.272	0.083	0.123	0.188	0.052	1.67	1960
1961	0.050	0.030	3.76	4.85	1.51	0.151	0.032	0.011	0.012	0.010	0.002	0	0.854	1961
1962	0	0	0	8.01	2.80	2.80	0.510	8.12	1.62	0.334	0.223	0.131	1.88	1962
1963	0.033	0.011	2.84	3.13	1.70	4.42	1.18	0.358	0.127	0.431	0.140	0.061	1.20	1963
1964	0.034	0.021	0.009	3.13	1.03	0.848	0.322	0.081	2.17	0.187	0.218	0.140	0.885	1964
1965	0.089	0.074	0.104	15.7	3.04	1.25	1.23	0.482	0.703	0.826	0.880	0.244	2.02	1965
1966	0.041	0.008	1.32	12.2	7.38	0.835	2.57	0.184	0.084	0.115	0.241	0.158	2.09	1966
1967	0.138	0.024	0.088	10.8	3.15	0.702	0.333	0.082	0.020	0.021	0.082	0.053	1.28	1967
1968	0.008	0.014	1.80	1.28	1.87	0.384	0.717	4.18	1.80	0.578	0.489	0.482	1.10	1968
1969	0.258	0.218	0.224	18.2	3.12	2.06	8.84	1.35	0.275	0.448	1.39	0.136	2.85	1969
1970	0.128	0.136	0.132	19.3	17.8	1.52	0.287	0.012	0.034	0.111	0.311	0.182	3.23	1970
1971	0.088	0.124	0.187	12.8	2.12	1.37	1.17	0.308	0.224	0.828	0.788	0.471	1.88	1971
1972	0.180	0.021	3.02	8.28	1.94	0.316	0.048	0.090	0.043	0.334	0.234	0.148	1.22	1972
1973	0.108	0.139	0.548	0.823	0.581	0.184	0.158	0.078	0.088	0.257	0.483	0.373	0.298	1973
1974	0.157	0.171	0.189	23.4	10.7	1.77	0.274	0.013	0.045	0.049	0.258	0.217	3.09	1974
1975	0.162	0.136	0.177	2.85	2.13	1.70	0.628	0.310	0.235	0.286	0.186	0.088	0.737	1975
1976	0.078	0.075	0.084	14.2	0.827	0.153	0.016	0.090	0.187	0.057	0.087	0.045	1.30	1976
1977	0.058	0.129	0.090	0.017	1.26	0.126	0.016	0.071	0.551	0.483	0.288	0.281	0.278	1977
1978	0.228	0.170	0.117	8.06	2.09	1.24	2.87	0.848	0.390	0.209	0.383	0.093	1.48	1978
1979	0.040	0.089	0.180	24.1	15.8	2.45	0.282	0.062	0.058	0.046	0.084	0.178	3.89	1979
1980	0.183	0.170	0.150	3.83	0.501	0.088	0.078	0.118	0.056	0.017	0.012	0.028	0.418	1980
1981	0.078	0.072	0.357	0.309	0.286	0.831	0.429	0.253	0.718	0.198	0.084	0.050	0.287	1981
1982	0.028	0.023	0.023	2.16	0.832	0.371	0.075	0.013	0.132	0.045	0.189	0.178	0.320	1982
1983	0.157	0.123	0.236	10.5	0.868	0.256	0.285	0.147	0.078	0.185	0.043	0.018	1.04	1983
1984	0.004	0.020	0.078	0.388	0.830	0.447	0.194	0.131	0.088	0.028	0.080	0.081	0.178	1984
1985	0.078	0.085	4.93	4.75	0.487	0.150	0.141	2.68	0.314	0.480	0.403	0.282	1.24	1985
1986	0.278	0.071	0.83	8.63	0.88	0.577	1.40	0.484	0.163	0.180	0.297	0.211	2.19	1986
1987	0.120	0.108	2.06	12.4	0.426	0.182	0.100	0.247	0.328	0.387	0.085	0.206	1.38	1987
1988	0.114	0.063	0.407	2.03	0.892	0.138	0.184	0.133	0.083	0.085	0.077	0.085	0.351	1988
MEAN	0.088	0.078	0.870	8.14	3.05	1.38	0.837	0.852	0.347	0.288	0.303	0.181	1.38	MEAN

LOCATION - LAT 48 30 48 N DRAINAGE AREA, 883 km²
LONG 88 14 56 W REGULATED SINCE 1964

BOYNE RIVER NEAR STEPHENFIELD - STATION NO. 05OF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1952	---	---	---	---	1952
1953	---	28.8 ON JUN 4	0.0038 ON FEB 1	37 900	1953
1954	---	31.7 E ON JUL 1	0.0268 ON JAN 1	48 800	1954
1955	---	41.3 B ON APR 5	0 ON SEP 2 *	64 200	1955
1956	---	44.7 B ON APR 21	0 B ON FEB 20	55 400	1956
1957	---	11.1 B ON MAR 23	0.026 ON SEP 21	25 100	1957
1958	---	8.208 ON MAR 31	0 B ON JAN 18	11 400	1958
1959	---	17.9 B ON APR 4	0.0038 ON MAR 16	30 700	1959
1960	---	41.1 ON APR 14	0.003 ON OCT 1	52 800	1960
1961	---	26.5 B ON MAR 27	0 ON OCT 30	27 000	1961
1962	---	45.0 B ON APR 21	0 B ON JAN 1	61 900	1962
1963	---	15.0 ON JUN 5	0 B ON FEB 19	34 000	1963
1964	---	12.5 ON SEP 2	0 B ON APR 9	21 700	1964
1965	---	63.4 ON APR 15	0.034 ON JUN 14	83 700	1965
1966	---	42.5 B ON APR 4	0 B ON FEB 18	55 000	1966
1967	---	43.3 ON APR 21	0 ON AUG 31	40 400	1967
1968	---	32.8 ON AUG 25	0 B ON JAN 18	34 800	1968
1969	---	70.8 ON APR 12	0.122 ON SEP 20	90 000	1969
1970	111 AT 13:27 CST ON APR 28	108 ON APR 28	0.008 ON AUG 12	108 000	1970
1971	80.3 AT 12:00 CST ON APR 11	57.2 ON APR 11	0.019 ON AUG 31	53 200	1971
1972	20.7 AT 13:44 CST ON APR 15	18.7 ON APR 15	0.003 ON SEP 10	38 500	1972
1973	---	1.708 ON MAR 27	0.004A ON JUL 24	9 430	1973
1974	136 AT 17:00 CST ON APR 21	114 ON APR 21	0.001A ON AUG 8	97 800	1974
1975	15.8 AT 08:10 CST ON JUN 28	14.3 ON JUN 28	0.001A ON JUL 30	23 200	1975
1976	43.9 AT 18:37 CST ON APR 9	42.8 ON APR 9	0 ON AUG 6	41 300	1976
1977	---	7.78A ON MAY 20	0 ON APR 25	8 750	1977
1978	---	26.1 B ON APR 11	0.0488 ON DEC 27	48 700	1978
1979	155 AT 08:48 CST ON APR 22 *	137 ON APR 22 *	0.028 ON SEP 14	113 000	1979
1980	12.4 AT 15:10 CST ON APR 7	11.5 B ON APR 7	0.011 ON OCT 26	13 100	1980
1981	7.18 AT 22:11 CST ON JUN 24	5.01 ON JUN 26	0.007A ON OCT 22	9 050	1981
1982	---	5.26A ON APR 13	0.001A ON JUL 22	10 100	1982
1983	32.0 B AT 13:45 CST ON APR 9	30.0 B ON APR 9	0.001 ON NOV 22	32 800	1983
1984	3.19 AT 14:38 CST ON APR 14	1.74 ON JUN 9	0.0018 ON JAN 17	5 620	1984
1985	18.5 AT 09:22 CST ON AUG 18	18.2 B ON MAR 28	0.020 ON JUL 7	39 000	1985
1986	40.7 AT 21:10 CST ON MAR 29	38.8 ON MAR 30	0.007 ON MAR 20	69 000	1986
1987	46.4 AT 16:41 CST ON APR 8	44.3 ON APR 8	0.010 ON DEC 2	43 500	1987
1988	7.84 AT 17:07 CST ON APR 4	7.24 ON APR 4	0.0028 ON SEP 21	11 100	1988
				43 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.035	2.15	0.805	0.004	0.042	0	0	0	---	---	0.882	1967
1968	---	---	0.328	0.418	0.327	0.077	0.073	0.201	0.135	0.093	---	---	0.288	1968
1969	---	---	0.005	5.95	0.803	0.758	1.49	0.519	0.084	0.100	---	---	1.73	1969
1970	---	---	0	8.73	3.22	0.318	0.081	0.011	0.018	0.028	---	---	2.55	1970
1971	---	---	0	4.72	0.811	0.278	0.589	0.105	0.042	0.155	---	---	1.39	1971
1972	---	---	0.072	1.98	0.450	0.048	0.008	0.131	0.021	0.029	---	---	0.483	1972
1973	---	---	0.297	0.163	0.146	0.039	0.088	0.019	0.023	0.038	---	---	0.102	1973
1974	---	---	0	8.80	2.22	0.367	0.014	0	0.013	0.041	---	---	2.82	1974
1975	---	---	0.001	0.788	0.889	0.173	0.023	0.003	0.020	0.038	---	---	0.414	1975
1976	---	---	0.074	5.17	0.178	0.053	0.005	0	0	0	---	---	1.35	1976
1977	---	---	0.019	0.145	0.223	0.018	0.481	0.123	0.408	0.147	---	---	0.102	1977
1978	---	---	0.095	2.45	0.537	0.358	---	---	---	---	---	---	0.881	1978
1979	---	---	0.017	8.88	3.25	0.518	---	---	---	---	---	---	2.84	1979
1980	---	---	0.023	0.803	0.088	0.008	---	---	---	---	---	---	0.248	1980
1981	---	---	0.028	0.100	0.088	0.071	---	---	---	---	---	---	0.075	1981
1982	---	---	0.088	0.848	0.151	0.045	---	---	---	---	---	---	0.234	1982
1983	---	---	0.520	3.88	0.187	0.043	---	---	---	---	---	---	1.15	1983
1984	---	---	0.178	0.128	0.170	0.031	---	---	---	---	---	---	0.128	1984
1985	---	---	1.58	1.45	0.105	0.023	---	---	---	---	---	---	0.782	1985
1986	---	---	2.17	1.67	1.41	0.227	---	---	---	---	---	---	1.42	1986
1987	---	---	1.04	3.81	0.101	0.019	---	---	---	---	---	---	1.15	1987
1988	---	---	0.221	0.801	0.388	0.008	---	---	---	---	---	---	0.295	1988
MEAN	---	---	0.361	2.89	0.715	0.158	0.282	0.101	0.088	0.081	---	---	0.872	MEAN

LOCATION - LAT 49 40 15 N DRAINAGE AREA, 274 km²
LONG 98 38 35 W NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1973 AND 1977

BOYNE RIVER NEAR TREHERNE - STATION NO. 05OF010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	8.95 ON APR 21	0 B ON MAR 1 *	7 290	1967
1968	---	2.15 ON MAY 16	0 B ON MAR 1	3 030	1968
1969	---	29.7 ON APR 10	0 B ON MAR 1	18 300	1969
1970	---	34.0 R ON APR 26	0 B ON MAR 1	25 800	1970
1971	---	12.6 ON APR 6	0 B ON MAR 1	14 800	1971
1972	---	4.25 B ON APR 10	0 B ON MAR 1	9 100	1972
1973	---	0.4258 ON MAR 12	0 B ON MAR 1	1 710	1973
1974	---	49.6 ON APR 21 *	0 B ON MAR 1	29 700	1974
1975	---	4.25 E ON MAY 25	0 B ON MAR 1	4 370	1975
1976	---	19.4 B ON APR 6	0.018 ON JUN 30	14 200	1976
1977	---	0.884 ON MAY 14	0 B ON MAR 1	1 070	1977
1978	---	7.62 ON APR 10	0.0188 ON MAR 1	8 870	1978
1979	---	37.2 B ON APR 21	0.0188 ON MAR 1	27 800	1979
1980	3.00 B AT 20:25 CST ON APR 6	2.70 B ON APR 6	0 ON JUN 6	2 610	1980
1981	0.211 AT 22:36 CST ON MAY 29	0.178 ON MAY 2	0.0088 ON MAR 6	788	1981
1982	2.32 B AT 06:36 CST ON APR 13	1.80 B ON APR 13	0 B ON MAR 1	2 470	1982
1983	14.8 AT 03:25 CST ON APR 9	12.3 ON APR 9	0 B ON MAR 1	12 000	1983
1984	---	1.58 B ON MAR 25	0 B ON MAR 1	1 350	1984
1985	8.32 B AT 01:18 CST ON MAR 25	8.02 B ON MAR 25	0 B ON MAR 1	8 350	1985
1986	13.2 AT 12:33 CST ON MAR 29	11.2 ON MAR 29	0.010 ON JUN 15	15 000	1986
1987	19.1 AT 03:22 CST ON APR 5 *	14.6 ON APR 5	0.008 ON JUN 22	12 500	1987
1988	2.85 B AT 23:06 CST ON APR 2	2.44 B ON APR 3	0 ON JUN 25	3 150	1988
				10 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 01 1989

BROKENHEAD RIVER AT ST. OWENS - STATION NO. 05SA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	9.59	3.80	2.30	11.7	13.5	5.38	---	---	1912
1913	---	---	---	---	5.85	3.04	5.37	5.89	4.66	3.46	2.44	---	---	1913
1914	0	0	0.186	5.13	8.70	13.4	15.0	2.43	2.39	6.42	3.89	0.788	4.72	1914
1915	0.170	0.113	0.085	10.6	14.5	8.44	3.80	0.603	0.128	1.84	1.14	0.425	3.32	1915
1916	0.142	0.142	0.142	20.3	18.5	6.79	5.87	5.14	1.66	2.10	2.54	0.283	5.16	1916
1917	0.057	0.057	0.170	5.95	5.08	1.07	0.804	0.803	0.693	0.680	1.30	0.113	1.37	1917
1918	0.028	0	1.16	2.53	1.33	3.66	1.76	2.07	0.791	1.28	4.02	0.881	1.83	1918
1919	0.312	0.081	0.231	11.2	4.71	2.89	22.1	3.40	3.37	2.16	0.764	0.116	4.31	1919
1920	0.008	0.057	0.369	13.1	7.40	12.5	1.41	0.884	0.112	0.165	0.150	0.072	2.83	1920
1921	0.052	0.050	0.092	8.02	8.26	2.24	4.21	1.04	1.05	2.19	1.06	0.225	2.29	1921
1922	0.090	0.038	0.174	4.60	16.4	5.26	3.22	4.43	2.78	0.889	4.31	---	---	1922
1923	---	---	---	---	18.8	5.34	11.2	8.23	3.84	3.83	1.70	---	---	1923
1924	---	---	---	---	22.2	8.13	1.79	1.87	0.908	3.89	---	---	---	1924
1925	---	---	---	17.3	8.58	24.6	9.70	2.00	1.98	5.88	3.40	---	---	1925
1926	---	---	---	---	1.38	4.62	5.84	1.47	1.78	10.4	7.08	---	---	1926
1927	---	---	---	28.3	47.3	14.7	2.70	0.878	2.58	5.83	4.26	---	---	1927
1928	---	---	---	1.42	4.11	25.6	21.1	7.63	2.58	0.751	---	---	---	1928
1929	---	---	---	---	2.88	5.83	3.88	0.285	0.132	0.236	---	---	---	1929
1930	---	---	---	8.07	20.5	7.35	7.97	0.770	0.263	1.81	0.942	---	---	1930
1931	---	---	---	12.7	8.38	1.37	---	---	---	---	---	---	---	1931
MEAN	0.084	0.058	0.288	10.7	11.2	8.10	8.83	2.84	2.33	3.49	2.88	0.338	3.22	MEAN

LOCATION - LAT 50 03 03 N DRAINAGE AREA, 1 540 km²
LONG 96 26 45 W NATURAL FLOW

BROKENHEAD RIVER AT ST. OUENS - STATION NO. 05AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	---	---	---	1913
1914	---	38.8 ON JUL 18	0 B ON JAN 1 *	148 000	1914
1915	---	23.8 ON MAY 11	0.087 ON AUG 31	105 000	1915
1916	---	47.0 ON APR 18	0.1428 ON JAN 1	184 000	1916
1917	---	13.3 ON APR 21	0.0288 ON DEC 8	43 000	1917
1918	---	8.86 ON NOV 24	0 B ON FEB 1	51 400	1918
1919	---	44.7 ON JUL 8	0.0288 ON FEB 23	138 000	1919
1920	---	27.0 B ON APR 18	0 B ON JAN 6	82 500	1920
1921	---	11.4 B ON APR 13	0.0288 ON JAN 1	72 300	1921
1922	---	30.3 ON MAY 20	0.0288 ON FEB 3	---	1922
1923	---	85.7 ON APR 24 *	---	---	1923
1924	---	88.7 ON APR 27	---	---	1924
1925	---	36.0 ON JUN 27	---	---	1925
1926	---	---	---	---	1926
1927	---	83.7 ON MAY 14	---	---	1927
1928	---	55.5 ON JUN 23	---	---	1928
1929	---	---	---	---	1929
1930	---	43.8 ON MAY 18	---	---	1930
1931	---	28.4 ON APR 11	---	---	1931
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		102 000	MEAN

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05AA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	3.45	0.311	0.172	0.834	0.418	---	---	---	1942
1943	---	---	---	5.77	5.69	17.1	7.80	0.808	0.520	0.248	---	---	---	1943
1944	---	---	---	2.43	1.80	14.2	4.68	4.37	18.0	3.68	9.50	---	---	1944
1945	---	---	---	27.3	14.8	3.88	2.29	0.222	3.24	4.06	---	---	---	1945
1946	---	---	---	10.3	4.21	0.789	0.595	0.045	0.179	1.15	---	---	---	1946
1947	---	---	---	---	12.7	4.88	1.36	4.28	1.07	3.43	---	---	---	1947
1948	---	---	---	15.3	15.6	0.889	1.37	2.80	0.351	0.089	---	---	---	1948
1949	---	---	---	5.57	5.87	1.61	0.318	0.610	0.309	4.88	---	---	---	1949
1950	---	---	---	15.2	51.4	9.87	4.17	0.721	3.01	6.59	---	---	---	1950
1951	---	---	---	9.53	8.49	4.88	0.774	0.313	0.887	0.883	---	---	---	1951
1952	---	---	---	1.51	0.142	0.248	0.530	0.048	0.008	0.057	---	---	---	1952
1953	---	---	---	3.17	1.25	5.78	5.68	0.848	0.848	0.493	---	---	---	1953
1954	---	---	---	5.47	11.9	14.2	4.88	0.510	5.01	9.89	5.93	---	---	1954
1955	---	---	---	30.1	10.8	7.58	1.98	0.155	0.023	0.312	---	---	---	1955
1956	---	---	0	8.82	12.5	5.00	2.36	0.798	4.81	2.12	---	---	---	1956
1957	---	---	3.78	15.6	11.4	10.3	5.53	0.884	0.385	0.262	0.286	0.081	---	1957
1958	0.041	0.028	0.276	0.817	0.250	0.052	6.06	1.43	0.209	0.384	0.425	0.281	0.872	1958
1959	0.125	0.015	0.008	14.9	18.8	27.8	8.19	5.92	13.2	28.1	13.0	1.10	10.8	1959
1960	0.053	0.031	1.72	37.4	13.7	4.88	1.80	0.644	0.248	0.177	0.673	0.215	5.10	1960
1961	0.003	0.024	1.20	3.98	3.77	0.424	0.089	0.211	0.082	0.144	0.047	0.038	0.835	1961
1962	0.025	0.015	0.040	2.55	14.5	15.5	9.58	13.5	3.28	1.18	1.42	0.750	5.23	1962
1963	0.087	0.023	2.60	15.5	10.0	19.3	8.59	1.74	0.384	0.142	0.210	0.099	4.88	1963
1964	0.007	0	0	9.99	14.4	5.45	2.02	0.401	0.881	2.23	0.831	0.174	3.01	1964
1965	0.104	0.068	0.033	13.1	10.7	9.12	7.78	1.21	2.34	2.87	2.38	1.80	4.28	1965
1966	0.185	0.157	0.800	37.6	33.8	14.3	19.4	0.864	3.52	2.37	2.25	0.188	9.63	1966
1967	0.443	0.318	1.50	32.7	17.4	2.84	1.03	0.601	0.053	0.042	0.122	---	---	1967
1968	---	---	---	3.59	5.74	9.09	5.19	5.08	8.40	3.44	2.01	---	---	1968
1969	---	---	0.178	17.7	8.72	8.78	4.19	1.08	0.488	1.52	0.724	0.812	---	1969
1970	0.227	0.084	0.032	12.7	24.1	23.2	3.24	0.378	0.504	0.739	3.87	0.104	5.78	1970
1971	0.038	0.020	0.014	17.1	7.80	2.87	1.04	0.488	0.101	1.19	1.74	0.288	2.70	1971
1972	0.104	0.085	0.307	11.8	8.33	1.85	0.191	0.191	0.446	1.08	0.786	0.092	1.94	1972
1973	0.071	0.073	3.31	2.48	2.14	11.7	4.61	2.14	8.78	14.0	3.88	1.88	4.59	1973
1974	0.393	0.228	0.207	84.1	83.7	14.1	0.422	0.071	0.102	0.208	0.185	0.088	10.3	1974
1975	0.031	0.080	0.133	5.27	5.80	9.87	4.41	0.770	0.780	0.753	0.702	0.154	2.47	1975
1976	0.118	0.087	0.081	15.0	4.63	4.18	1.75	0.098	0.022	0.036	0.030	0.017	2.18	1976
1977	0.034	0.015	0.029	0.888	0.171	1.32	1.40	0.618	10.8	8.48	1.86	0.430	1.99	1977
1978	0.188	0.158	0.388	28.7	15.8	4.81	2.85	0.380	0.081	0.114	0.118	0.090	4.48	1978
1979	0.057	0.054	0.084	17.0	23.4	12.3	0.890	0.080	0.836	0.181	0.274	0.152	4.58	1979
1980	0.083	0.071	0.100	7.85	1.41	0.145	0.048	0.050	0.070	0.234	0.355	0.099	0.854	1980
1981	0.024	0.133	0.852	0.940	0.252	0.830	0.743	0.072	1.01	2.80	1.73	0.313	0.811	1981
1982	0.088	0.042	0.383	8.24	3.88	5.80	3.17	1.51	0.230	2.23	1.03	0.896	2.28	1982
1983	0.123	0.012	0.488	11.7	4.53	3.17	1.97	0.072	0.021	0.031	0.233	0.063	1.90	1983
1984	0.008	0.015	0.454	1.08	0.338	11.3	2.88	0.384	0.021	0.482	0.526	0.131	1.48	1984
1985	0.038	0.048	1.80	3.27	2.84	1.08	0.878	0.583	0.817	0.848	0.840	0.078	1.07	1985
1986	0.085	0.112	2.83	14.8	23.7	1.88	0.740	0.508	0.180	0.878	0.498	0.388	3.88	1986
1987	0.178	0.185	3.04	12.7	1.91	0.585	0.339	0.844	0.140	0.188	0.285	0.211	1.72	1987
1988	0.052	0.034	0.117	1.88	0.177	0.442	0.383	0.085	0.047	0.029	0.305	0.361	0.320	1988
MEAN	0.103	0.075	0.831	12.8	11.0	7.10	3.16	1.27	2.07	2.42	1.73	0.361	3.57	MEAN

LOCATION - LAT 50 05 25 N DRAINAGE AREA, 1 580 km^2
LONG 96 25 48 W NATURAL FLOW

BROKENHEAD RIVER NEAR BEAUSEJOUR - STATION NO. 05SA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	31.1 B ON APR 8	---	---	1943
1944	---	35.7 ON SEP 6	0 B ON APR 1 *	---	1944
1945	---	63.2 ON MAR 27	---	---	1945
1946	---	27.7 B ON MAR 24	---	---	1946
1947	---	26.1 B ON APR 14	---	---	1947
1948	---	39.4 ON APR 29	---	---	1948
1949	---	22.1 ON APR 12	---	---	1949
1950	---	88.4 ON MAY 11	---	---	1950
1951	---	13.8 B ON APR 7	---	---	1951
1952	---	3.059 ON APR 11	0 ON MAR 24	---	1952
1953	---	13.4 ON JUL 5	---	---	1953
1954	---	34.0 ON SEP 29	---	---	1954
1955	---	74.5 ON APR 6	0 ON SEP 4	---	1955
1956	---	20.4 B ON APR 23	0 B ON MAR 1	---	1956
1957	---	30.8 ON APR 25	---	---	1957
1958	---	11.5 ON JUL 25	0.0288 ON JAN 15	27 500	1958
1959	---	80.5 ON JUN 11	0 B ON FEB 15	340 000	1959
1960	---	82.7 ON APR 15	0 B ON FEB 12	181 000	1960
1961	---	7.08 ON MAY 2	0 B ON JAN 5	28 300	1961
1962	---	45.3 ON MAY 27	0.0148 ON FEB 11	185 000	1962
1963	---	28.9 B ON APR 8	0.0308 ON FEB 15	154 000	1963
1964	---	36.2 B ON APR 19	0 B ON JAN 11	95 300	1964
1965	---	30.3 B ON APR 14	0.0178 ON MAR 29	138 000	1965
1966	---	51.5 ON APR 15	0.0178 ON JAN 28	304 000	1966
1967	---	47.0 ON APR 22	---	---	1967
1968	---	17.4 ON JUN 15	---	---	1968
1969	38.2 AT 05:58 CST ON APR 12	36.5 ON APR 13	---	---	1969
1970	45.4 AT 22:15 CST ON MAY 30	45.2 ON MAY 30	0 B ON FEB 15	182 000	1970
1971	44.7 AT 05:51 CST ON APR 9	37.7 ON APR 11	0.0118 ON MAR 21	85 200	1971
1972	24.3 B AT 22:05 CST ON APR 15	22.5 B ON APR 16	0.057 ON SEP 2	81 400	1972
1973	41.9 AT 20:22 CST ON JUN 20	37.7 ON JUN 21	0.0888 ON JAN 5	145 000	1973
1974	---	103 A ON APR 23 *	0.0468 ON DEC 31	328 000	1974
1975	51.0 AT 07:47 CST ON JUN 23	45.5 ON JUN 23	0.0218 ON JAN 21	78 000	1975
1976	---	21.5 ON APR 19	0.0148 ON DEC 11	88 300	1976
1977	---	19.0 ON SEP 10	0 B ON MAR 10	82 700	1977
1978	---	54.9 B ON APR 16	0.034 ON SEP 11	141 000	1978
1979	73.0 B AT 16:20 CST ON APR 19 *	65.3 B ON APR 19	0.029 ON AUG 5	144 000	1979
1980	22.0 AT 01:30 CST ON APR 8	18.9 B ON APR 8	0.010 ON JUL 30	27 000	1980
1981	3.91 AT 21:59 CST ON OCT 28	3.708 ON APR 3	0.0018 ON JAN 4	25 600	1981
1982	23.6 B AT 08:11 CST ON APR 17	19.7 B ON APR 18	0 B ON MAR 14	72 000	1982
1983	27.7 AT 23:28 CST ON APR 11	20.5 B ON APR 11	0.0018 ON JAN 14	59 800	1983
1984	22.7 AT 03:20 CST ON JUN 20	22.4 ON JUN 20	0 B ON JAN 18	46 200	1984
1985	9.699 AT 05:29 CST ON MAR 25	8.128 ON MAR 25	0.0048 ON JAN 10	33 800	1985
1986	42.0 AT 01:44 CST ON MAY 2	40.8 ON MAY 2	0.0028 ON MAR 16	123 000	1986
1987	20.5 AT 02:28 CST ON APR 8	18.8 B ON APR 8	0.023 ON JUL 8	54 200	1987
1988	8.288 AT 01:42 CST ON APR 4	5.388 ON APR 4	0.0048 ON DEC 18	10 100	1988
				113 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	17.3	8.29	2.31	0.913	0.042	0.028	0.024	---	---	---	1960
1961	---	---	0.503	1.31	1.26	0.072	0.003	0.002	0.139	0.216	---	---	0.438	1961
1962	---	---	0.004	1.04	3.80	4.39	3.11	0.01	1.30	0.528	---	---	2.53	1962
1963	---	---	0.843	4.75	3.33	0.32	3.83	0.570	0.068	0.301	---	---	2.50	1963
1964	---	---	0	3.97	5.99	2.31	1.10	0.129	0.384	1.03	---	---	1.88	1964
1965	---	---	0	5.98	4.28	3.07	3.43	0.334	0.815	0.888	---	---	2.48	1965
1966	---	---	0.289	15.8	13.0	7.15	9.80	0.285	1.82	0.893	---	---	5.09	1966
1967	---	---	0.239	18.5	7.48	0.857	0.027	0.018	0	0	---	---	3.08	1967
1968	---	---	0.331	1.32	1.28	2.90	0.788	1.08	2.45	1.38	---	---	1.43	1968
1969	---	---	0	7.83	5.09	4.17	1.30	0.137	0.102	0.245	---	---	2.31	1969
1970	---	---	0	4.86	8.48	7.88	0.841	0.108	0.205	0.102	---	---	2.74	1970
1971	---	---	0.023	5.49	2.31	0.298	0.147	0.010	0.151	0.455	---	---	1.10	1971
1972	---	---	0.006	5.00	2.28	0.513	0.011	0.009	0.042	0.198	---	---	0.889	1972
1973	---	---	1.23	0.381	0.402	1.79	0.815	0.281	3.02	5.30	---	---	1.84	1973
1974	---	---	0	21.9	21.7	8.81	0.088	0.001	0	0	---	---	8.25	1974
1975	---	---	0	1.65	2.41	2.74	2.00	0.384	0.183	0.107	---	---	1.18	1975
1976	---	---	0.005	5.36	1.91	2.36	1.35	0.070	0	0	---	---	1.37	1976
1977	---	---	0	0.085	0.087	0.224	0.218	0.051	2.87	2.81	---	---	0.788	1977
1978	---	---	0.004	11.3	5.87	2.06	0.132	0	0	0	---	---	2.40	1978
1979	---	---	0	5.02	9.18	5.02	0.188	0.055	0.147	0.088	---	---	2.44	1979
1980	---	---	0.005	2.28	0.265	0.006	0	0	0	0.027	---	---	0.317	1980
1981	---	---	0.057	0.089	0.006	0.015	0.075	0	0.070	0.570	---	---	0.111	1981
1982	---	---	0.083	3.41	1.23	1.76	0.781	0.837	0.072	1.07	---	---	1.12	1982
1983	---	---	0.388	5.50	1.19	0.837	0.857	0.034	0	0.008	---	---	1.08	1983
1984	---	---	0.033	0.431	0.043	5.08	1.11	0.014	0	0.052	---	---	0.835	1984
1985	---	---	0.335	1.09	0.888	0.505	0.407	0.185	0.181	0.234	---	---	0.448	1985
1986	---	---	0.401	5.81	10.1	0.478	0.310	0.118	0.030	0.085	---	---	2.21	1986
1987	---	---	0.502	4.57	0.883	0.114	0.052	0.408	0.038	0.080	---	---	0.794	1987
1988	---	---	0.002	0.755	0.380	0.830	0.226	0.028	0	0.099	---	---	0.250	1988
MEAN	---	---	0.191	5.83	4.17	2.53	1.16	0.378	0.485	0.571	---	---	1.81	MEAN

LOCATION - LAT 49 53 07 N, LONG 96 21 57 W DRAINAGE AREA, 850 km^2 NATURAL FLOW

BROKENHEAD RIVER NEAR VIVIAN - STATION NO. 05SA004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	40.8 ON APR 15	0 ON AUG 15 *	---	1980
1981	---	2.79 B ON MAR 30	0 B ON MAR 1	9 270	1981
1982	---	11.5 ON MAY 27	0.0088 ON MAR 1	53 600	1982
1983	---	9.12 ON JUL 1	0 B ON MAR 1	52 800	1983
1984	---	11.4 ON APR 17	0 B ON MAR 1	39 300	1984
1985	---	11.8 ON APR 16	0 ON MAR 1	52 100	1985
1986	---	21.9 ON APR 13	0.017 ON AUG 25	129 000	1986
1987	---	28.4 ON APR 24	0 ON JUL 19	65 400	1987
1988	---	4.59 ON JUN 15	0 ON MAR 1	30 300	1988
1989	---	32.3 ON APR 14	0 B ON MAR 1	49 000	1989
1970	13.2 AT 16:15 CST ON MAY 30	13.2 ON MAY 30	0 B ON MAR 1	58 000	1970
1971	11.3 AT 15:07 CST ON APR 8	9.03 ON APR 13	0 B ON MAR 1	23 300	1971
1972	10.6 AT 14:28 CST ON APR 18	10.5 ON APR 18	0 B ON MAR 1	21 200	1972
1973	8.07 AT 10:05 CST ON OCT 15	8.01 ON OCT 15	0 B ON MAR 1	34 800	1973
1974	75.3 AT 05:51 CST ON APR 24 *	74.5 ON APR 24 *	0 B ON MAR 1	132 000	1974
1975	8.00 AT 14:01 CST ON JUL 1	5.95 ON JUL 1	0 B ON MAR 1	24 900	1975
1976	8.18 AT 23:33 CST ON APR 18	8.13 ON APR 19	0 E ON AUG 25	28 900	1976
1977	4.53 AT 08:48 CST ON SEP 15	4.50 ON SEP 28	0 B ON MAR 1	18 100	1977
1978	24.5 AT 20:43 CST ON APR 21	23.7 ON APR 22	0 B ON MAR 1	50 700	1978
1979	14.4 AT 05:34 CST ON MAY 2	14.3 ON MAY 2	0 B ON MAR 1	51 800	1979
1980	---	5.02 A ON APR 11	0 ON JUN 9	6 700	1980
1981	0.837 AT 00:01 CST ON OCT 31	0.822 ON OCT 31	0 B ON MAR 1	2 350	1981
1982	7.41 AT 14:20 CST ON APR 18	7.36 ON APR 18	0 B ON MAR 1	23 800	1982
1983	10.2 B AT 08:01 CST ON APR 7	9.86 ON APR 11	0 B ON MAR 1	22 500	1983
1984	12.8 AT 01:23 CST ON JUN 19	12.8 ON JUN 19	0 B ON MAR 1	17 700	1984
1985	4.30 B AT 00:02 CST ON APR 3	3.71 B ON APR 2	0 B ON MAR 1	9 450	1985
1986	15.8 AT 12:38 CST ON MAY 6	15.7 ON MAY 6	0 B ON MAR 1	48 900	1986
1987	8.90 AT 14:07 CST ON APR 12	8.87 ON APR 12	0.0028 ON MAR 1	16 600	1987
1988	---	1.80 B ON APR 10	0 B ON MAR 1	5 300	1988
				38 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BUFFALO CREEK NEAR ALTONA - STATION NO. 05OC025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	5	0.058	0.090	0.078	0	0	0.018	0.012	---	---	0.032	1977
1978	---	---	0.840	5.87	0.273	0.505	0.001	0	0.041	0.073	---	---	0.812	1978
1979	---	---	8	17.2	1.38	0.384	0.108	0.014	0.008	0	---	---	2.35	1979
1980	---	---	0.041	0.480	0.013	0	0.015	0.018	0.013	0.010	---	---	0.083	1980
1981	---	---	0.288	0.044	0.031	0.028	0	0	0	0	---	---	0.051	1981
1982	---	---	0.132	2.17	0.088	0.140	0.004	0	0	0.138	---	---	0.328	1982
1983	---	---	0.088	2.21	0.054	0.028	0.008	0	0	0	---	---	0.294	1983
1984	---	---	0.043	0.048	0.028	0.008	0	0	0	0	---	---	0.018	1984
1985	---	---	1.53	0.178	0	0	0.035	0.247	0.232	0.120	---	---	0.294	1985
1986	---	---	1.61	1.07	0.380	0.001	0	0.013	0	0	---	---	0.383	1986
1987	---	---	0.188	4.86	0.002	0	0	0	0	0	---	---	0.629	1987
MEAN	---	---	0.432	3.09	0.212	0.105	0.015	0.028	0.028	0.032	---	---	0.487	MEAN

LOCATION - LAT 49 05 38 N
LONG 97 38 35 W
DRAINAGE AREA, 483 km^2
NATURAL FLOW

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "BUFFALO LAKE CHANNEL NEAR ALTONA"

BUFFALO CREEK NEAR ALTONA - STATION NO. 05OC025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0.570RB ON APR 3	0B ON MAR 1 *	672	1977
1978	---	31.1 RB ON APR 8	0B ON MAR 1	19 300	1978
1979	---	137 A ON APR 20 *	0B ON MAR 1	48 700	1979
1980	---	2.50 B ON APR 2	0B ON MAR 1	1 330	1980
1981	---	0.888B ON MAR 14	0 ON APR 15	1 070	1981
1982	---	17.0 B ON APR 13	0B ON MAR 1	9 850	1982
1983	13.4B AT 21:30 CST ON APR 4	11.4 B ON APR 5	0B ON MAR 1	8 220	1983
1984	---	0.444B ON MAR 28	0B ON MAR 1	343	1984
1985	13.0B AT 17:00 CST ON MAR 19	11.1 B ON MAR 19	0B ON MAR 1	8 220	1985
1986	---	12.1 B ON MAR 25	0B ON MAR 1	8 080	1986
1987	41.5 AT 10:58 CST ON APR 5 *	38.1 B ON APR 5	0B ON MAR 1	13 400	1987
				10 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

BUFFALO CREEK NEAR ROSENFELD - STATION NO. 05DC019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	9.82	1.06	0.085	0.309	0.002	0	0	---	---	1.36	1969
1970	---	---	0	18.8	5.72	10.4	---	---	---	---	---	---	---	1970
1971	---	---	0	17.5	0.208	0.183	0.041	0	0	0	---	---	2.19	1971
1972	---	---	1.28	4.30	0.075	0.001	0	0	0.001	0	---	---	0.888	1972
1973	---	---	0.483	0.038	0	1.85	0.020	0.002	0.570	0.340	---	---	0.385	1973
1974	---	---	0	27.5	11.1	0.375	0	0	0	0	---	---	4.82	1974
1975	---	---	0	2.54	0.808	0.127	0.054	0	0	0	---	---	0.436	1975
1976	---	---	0	10.9	0.057	0.868	0.014	0	0	0	---	---	1.48	1976
1977	---	---	0	0.072	0.208	0.154	0.013	0.005	0.057	0.085	---	---	0.071	1977
1978	---	---	0.053	7.91	0.277	0.551	0.040	0	0.175	0.025	---	---	1.11	1978
1979	---	---	0	35.8	3.49	0.838	0.228	0.017	0.001	0.018	---	---	4.93	1979
1980	---	---	0	1.89	0.005	0	0.094	0.001	0	0.005	---	---	0.221	1980
1981	---	---	1.06	0.152	0.109	0.032	0	0.002	0.005	0.109	---	---	0.185	1981
1982	---	---	0.389	5.76	0.080	0.178	0.076	0.005	0	0.085	---	---	0.807	1982
1983	---	---	1.96	7.37	0.080	0.092	0.032	0	0	0	---	---	1.18	1983
1984	---	---	0.114	0.285	0.018	0.020	0	0	0	0.009	---	---	0.056	1984
1985	---	---	4.09	0.408	0.043	0.029	0.028	0.285	0.147	0.108	---	---	0.847	1985
1986	---	---	3.70	1.83	0.851	0.023	0.018	0.001	0	0.004	---	---	0.819	1986
1987	---	---	0.482	11.3	0.088	0.009	0.022	0.003	0	0.015	---	---	1.46	1987
1988	---	---	0.008	0.440	0.041	0.013	0	0	0	0.002	---	---	0.062	1988
MEAN	---	---	0.892	8.25	1.22	0.788	0.052	0.017	0.050	0.041	---	---	1.21	MEAN

LOCATION - LAT 49 11 30 N DRAINAGE AREA, 744 km²
LONG 97 24 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "PLUM RIVER NEAR ROSENFELD"

BUFFALO CREEK NEAR ROSENFELD - STATION NO. 05DC019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	53.8 B ON APR 11	0B ON MAR 1 *	29 290	1969
1970	---	76.7 B ON APR 16	0B ON MAR 1	---	1970
1971	186 AT 01:15 CST ON APR 12	152 B ON APR 11	0B ON MAR 1	46 500	1971
1972	---	15.8 B ON APR 14	0B ON MAR 1	14 800	1972
1973	20.4 AT 06:34 CST ON JUN 18	17.3 ON JUN 18	0B ON MAR 1	8 150	1973
1974	---	139 B ON APR 16	0B ON MAR 1	102 000	1974
1975	---	8.75B ON APR 17	0B ON MAR 1	8 230	1975
1976	78.9 B AT 15:41 CST ON APR 5	71.6 B ON APR 5	0B ON MAR 1	30 800	1976
1977	7.63 AT 01:40 CST ON MAY 30	4.47 ON MAY 30	0B ON MAR 1	1 510	1977
1978	---	35.9 B ON APR 8	0B ON MAR 1	23 500	1978
1979	217 AT 10:15 CST ON APR 20 *	197 ON APR 20 *	0B ON MAR 1	104 000	1979
1980	8.35B AT 13:15 CST ON APR 4	7.78B ON APR 5	0B ON MAR 1	4 680	1980
1981	---	2.50B ON MAR 14	0 ON MAY 1	3 920	1981
1982	---	32.7 B ON APR 14	0B ON MAR 1	17 000	1982
1983	32.2 B AT 17:16 CST ON APR 5	28.5 B ON APR 6	0B ON MAR 1	24 900	1983
1984	2.28B AT 15:10 CST ON MAR 31	1.67B ON MAR 31	0B ON MAR 1	1 200	1984
1985	30.8 B AT 17:35 CST ON MAR 19	27.5 B ON MAR 19	0B ON MAR 1	13 700	1985
1986	35.3 B AT 13:00 CST ON MAR 28	31.4 B ON MAR 28	0B ON MAR 1	17 300	1986
1987	81.1 AT 17:00 CST ON APR 5	68.0 B ON APR 5	0B ON MAR 1	30 800	1987
1988	3.46B AT 14:13 CST ON APR 5	2.34B ON APR 5	0B ON MAR 1	1 310	1988
				25 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNT LAKE DRAIN NEAR DEERHORN - STATION NO. 05LN002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.53	0.981	0.385	0.092	0.042	0.003	0	---	---	0.709	1980
1981	---	---	0.048	0.234	0.108	0	0	0	0	0	---	---	0.087	1981
1982	---	---	0	0.109	0.071	0.084	0	0.013	0.006	0.001	---	---	0.060	1982
1983	---	---	0.038	1.84	0.555	4.81	1.57	0.571	0.057	0	---	---	1.74	1983
1984	---	---	0	0.059	0.083	0.002	0	0	0	0	---	---	0.036	1984
1985	---	---	0	0.554	1.26	0.729	0.111	0.037	0.018	0.006	---	---	0.838	1985
1986	---	---	0.286	1.53	1.02	0.086	0.008	0	0	0	---	---	0.727	1986
1987	---	---	0	0.895	0.392	0.013	0.008	0	0	0	---	---	0.274	1987
1988	---	---	0	0.027	0.020	0.032	0.004	0.053	0.503	0.073	---	---	0.019	1988
1989	---	---	0	1.06	0.248	0.050	0.035	0.080	0.007	0.010	---	---	0.335	1989
1970	---	---	0	0.588	1.09	0.171	0.047	0.001	0	0	---	---	0.462	1970
1971	---	---	0	0.261	0.083	0.007	0.006	0	0	0	---	---	0.080	1971
1972	---	---	0	0.273	0.072	0.006	0.001	0.001	0	0	---	---	0.067	1972
1973	---	---	0.016	0.008	0.005	0.070	---	0.021	0.011	0.027	---	---	0.024	1973
1974	---	---	0	2.09	4.07	0.944	---	0.051	0.020	0.011	---	---	1.78	1974
1975	---	---	0	0.101	---	---	---	2.29	2.05	0.765	---	---	---	1975
1976	---	---	0.144	8.50	2.45	0.580	---	0.034	0.005	0.005	---	---	2.89	1976
1977	---	---	0.003	0.029	0.065	0.049	---	---	---	---	---	---	0.034	1977
1978	---	---	0	0.955	0.311	0.068	---	---	---	---	---	---	0.330	1978
1979	---	---	0	0.805	3.74	1.54	---	---	---	---	---	---	1.53	1979
1980	---	---	0	0.280	0.080	0.016	---	---	---	---	---	---	0.095	1980
1981	---	---	0.031	0.189	0.081	0.032	---	---	---	---	---	---	0.080	1981
1982	---	---	0.007	0.357	0.250	0.148	---	---	---	---	---	---	0.180	1982
1983	---	---	0.001	0.998	0.238	0.078	---	---	---	---	---	---	0.328	1983
1984	---	---	0	0.002	0.008	---	---	---	---	---	---	---	---	1984
1985	---	---	0.003	0.318	0.011	0.007	---	---	---	---	---	---	0.084	1985
1986	---	---	0.083	3.20	4.74	1.03	---	---	---	---	---	---	2.27	1986
1987	---	---	0.008	0.748	0.100	0.011	---	---	---	---	---	---	0.214	1987
MEAN	---	---	0.024	0.970	0.818	0.419	0.145	0.188	0.158	0.053	---	---	0.581	MEAN

LOCATION - LAT 50 48 39 N DRAINAGE AREA, 334 km²
LONG 96 02 27 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

BURNT LAKE DRAIN NEAR DEERHORN - STATION NO. 05LN002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	4.30 ON APR 19	0 B ON MAR 1 *	7 480	1980
1981	---	0.388 ON MAR 30	0 B ON MAR 1	1 020	1981
1982	---	0.885 ON APR 22	0 B ON MAR 1	636	1982
1983	---	12.3 E ON JUN 12	0 B ON MAR 1	18 300	1983
1984	---	0.2668 ON APR 20	0 B ON MAR 1	380	1984
1985	---	4.42 ON MAY 28	0 B ON MAR 1	8 710	1985
1986	---	4.84 B ON APR 1	0 B ON MAR 1	7 670	1986
1987	---	2.83 B ON APR 17	0 B ON MAR 1	2 880	1987
1988	---	0.093 ON APR 12	0 B ON MAR 1	205	1988
1989	---	2.84 ON APR 17	0 B ON MAR 1	3 530	1989
1970	---	2.41 B ON APR 19	0 B ON MAR 1	4 870	1970
1971	---	0.719 ON APR 19	0 B ON MAR 1	946	1971
1972	---	1.16 ON APR 18	0 B ON MAR 1	917	1972
1973	---	0.193 ON JUN 21	0 B ON MAR 1	256	1973
1974	---	5.55 ON MAY 3	0 B ON MAR 1	18 800	1974
1975	---	---	---	---	1975
1976	---	13.0 ON APR 20 *	0.1448 ON MAR 1	30 400	1976
1977	---	0.178 ON MAY 19	0 B ON MAR 1	357	1977
1978	---	2.28 ON APR 18	0 B ON MAR 1	3 470	1978
1979	---	5.35 ON MAY 3	0 B ON MAR 1	18 100	1979
1980	---	0.800 ON APR 18	0 B ON MAR 1	1 010	1980
1981	0.321 AT 00:00 CST ON APR 8	0.312E ON APR 4	0 B ON MAR 1	848	1981
1982	---	1.03 B ON APR 18	0 B ON MAR 1	2 000	1982
1983	---	1.93 B ON APR 8	0 B ON MAR 1	3 430	1983
1984	---	---	0 B ON MAR 1	---	1984
1985	1.12 B AT 12:50 CST ON APR 4	0.850B ON APR 4	0 B ON MAR 1	883	1985
1986	8.65 AT 18:48 CST ON MAY 7 *	8.58 ON MAY 7	0 B ON MAR 1	23 900	1986
1987	---	3.25 B ON APR 8	0 B ON MAR 1	2 250	1987
				8 120	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1985	---	---	---	---	---	---	---	---	30.5	25.2	17.3	9.93R	---	1985
1986	7.81	6.27	4.88	14.8	104	71.1	58.2	58.2	31.8	23.7	14.8	10.1	35.7	1986
1987	8.06	6.89	5.44	29.4	38.2	38.1	30.1	21.2	20.1	16.6	11.4	8.24	18.4	1987
1988	4.21	3.81	3.72	3.84	84.4	30.0	18.7	10.7	7.88	6.06	6.82	5.31	13.2	1988
MEAN	6.69	5.69	4.67	16.0	65.5	46.4	35.0	33.4	22.6	18.4	12.5	7.90R	22.8R	MEAN

LOCATION - LAT 55 30 00 N DRAINAGE AREA, 5 280 km²
LONG 99 13 20 W NATURAL FLOW

R - REVISED SINCE JAN 01 1987

BURNTWOOD RIVER ABOVE LEAF RAPIDS - STATION NO. 05TE002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	---	---	---	1985
1986	172 AT 15:00 CST ON MAY 15 *	172 ON MAY 15 *	4.108 ON APR 4	1 130 000	1986
1987	89.7 AT 19:30 CST ON APR 25	86.6 ON APR 25	4.048 ON DEC 31	810 000	1987
1988	---	85.38 ON MAY 7	3.688 ON APR 15 *	417 000	1988
				718 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	9.42	7.11	5.52	27.3	74.7	80.5	58.3	41.3	38.5	30.0	29.4	15.3	34.9	1977
1978	11.6	8.94	5.52	5.73	---	33.8	---	39.8	27.1	68.9	32.5	17.8	---	1978
1979	12.6	8.97	6.34	5.86	69.7	88.4	51.0	---	---	40.6	22.7	12.0	---	1979
1980	9.25	8.05	7.67	24.1	25.3	19.2	17.1	---	74.1	84.4	34.1	18.0	---	1980
1981	14.1	8.73	7.22	5.86	83.7	38.4	30.4	25.3	13.0	22.5	22.9	13.3	24.0	1981
1982	10.7	8.08	6.72	12.3	132	82.2	40.2	30.4	23.0	23.6	17.3	10.2	33.2	1982
1983	8.77	7.56	6.76	17.3	104	70.7	48.6	33.2	36.6	39.2	27.8	17.1	35.1	1983
1984	11.3	8.46	6.92	60.4	78.5	56.2	46.2	32.4	56.8	66.6	42.1	26.6	40.8	1984
1985	15.2	10.7	9.52	49.0	104	104	76.9	---	---	---	---	---	---	1985
MEAN	11.5	8.83	6.91	23.1	84.0	64.7	46.3	33.2	38.7	44.3	28.6	16.3	33.6	MEAN

LOCATION - LAT 55 27 50 N DRAINAGE AREA, 8 880 km^2
LONG 99 06 00 W NATURAL FLOW

BURNTWOOD RIVER ABOVE THREE POINT LAKE - STATION NO. 05TE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	131 ON MAY 27	130 ON MAY 28	4.988 ON MAR 30	1 100 000	1977
1978	---	85.6 ON OCT 5	4.638 ON APR 21	---	1978
1979	130 AT 20:40 CST ON JUN 2	130 ON JUN 2	4.308 ON APR 21 *	---	1979
1980	---	---	7.588 ON MAR 28	---	1980
1981	160 AT 13:30 CST ON MAY 9	156 ON MAY 9	5.618 ON APR 28	758 000	1981
1982	194 AT 16:10 CST ON MAY 3 *	181 ON MAY 3 *	5.788 ON APR 23	1 050 000	1982
1983	119 AT 01:15 CST ON MAY 22	118 ON MAY 21	6.128 ON APR 19	1 110 000	1983
1984	161 AT 22:36 CST ON APR 21	161 ON APR 22	5.258 ON APR 7	1 290 000	1984
1985	168 AT 18:00 CST ON APR 29	165 ON APR 29	---	---	1985
				1 050 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	63.7	50.3	37.4	---	1957
1958	28.1	21.7	22.3	44.6	132	158	118	88.4	60.7	131	120	76.1	85.4	1958
1959	41.0	32.3	16.1	16.1	213	480	342	204	185	161	119	71.2	156	1959
1960	38.4	27.4	24.5	21.5	141	410	238	107	58.2	32.8	23.6	13.7	84.7	1960
1961	9.45	8.38	7.83	8.62	88.9	158	108	74.2	45.0	32.8	27.7	24.1	47.8	1961
1962	20.0	17.5	15.3	13.1	264	440	268	127	76.4	60.0	46.3	36.7	116	1962
1963	27.8	21.8	18.8	25.2	242	295	199	128	124	120	134	70.7	116	1963
1964	36.0	35.0	21.2	21.4	196	224	118	136	239	222	143	84.5	122	1964
1965	56.0	40.8	28.7	23.8	254	406	278	137	84.7	98.3	85.2	63.8	131	1965
1966	49.5	39.6	28.7	25.8	176	606	380	186	88.8	61.5	26.9	21.6	133	1966
1967	20.2	18.0	16.6	14.5	76.4	288	230	146	88.6	42.0	34.4	28.4	83.2	1967
1968	28.0	23.6	20.1	21.3	191	280	182	118	88.0	187	158	107	115	1968
1969	87.4	38.1	26.1	55.5	156	188	124	78.6	182	369	286	156	141	1969
1970	80.8	52.5	35.8	25.9	139	267	352	208	127	100	152	117	138	1970
1971	67.6	43.4	31.0	44.6	201	227	242	221	185	224	266	191	163	1971
1972	119	80.3	62.7	41.6	257	283	235	175	134	155	126	83.1	146	1972
1973	54.7	38.6	32.1	23.6	127	185	159	133	103	86.6	62.0	70.2	92.7	1973
1974	53.1	40.9	26.2	23.6	183	181	124	86.4	61.9	33.0	26.6	18.6	86.2	1974
1975	16.2	15.6	12.9	13.6	88.4	186	140	104	70.0	66.6	62.1	28.3	67.6	1975
1976	40.1	82.9	86.0	86.0	84.1	146	236	181	183	281	333	352	188	1976
1977	370	368	350	404	486	540	534	570	546	511	533	524	804	1977
1978	677	661	656	691	642	653	613	667	663	686	653	630	656	1978
1979	926	936	927	890	778	902	708	790	822	851	916	694	868	1979
1980	654	668	900	918	868	825	664	678	941	926	938	974	887	1980
1981	681	662	935	944	957	960	1 060	1 080	926	688	667	666	900	1981
1982	663	661	689	688	830	665	694	678	980	1 010	1 010	991	785	1982
1983	634	660	666	643	614	643	912	907	916	971	1 000	967	639	1983
1984	666	639	937	1 050	1 120	1 110	1 060	967	789	636	668	668	976	1984
1985	667	694	950	646	1 040	1 080	1 040	1 060	634	694	943 R	913 R	973 R	1985
1986	640	782	718	707	936	772	728	734	822	1 100	1 040	954	863	1986
1987	848	833	910	907	912	971	1 070	934	787	764	932	1 030	923	1987
1988	1 020	886	882	758	967	841	780	832	926	848	875	846	888	1988
MEAN	369	340	323	316	436	502	496	423	413	418	420 R	388 R	405 R	MEAN

LOCATION - LAT 55 44 40 N
LONG 97 53 30 W

DRAINAGE AREA, 18 500 km²
REGULATED SINCE 1973

R - REVISED SINCE JAN 01 1987

REMARKS - DISCHARGE RECORDS FOR 1957-81 WERE PUBLISHED UNDER THE TITLE "BURNTWOOD RIVER AT NAMASAN FALLS"

BURNTWOOD RIVER NEAR THOMPSON - STATION NO. 05TG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	168 ON JUN 13	20.4 B ON FEB 13	2 880 000	1958
1959	---	480 ON JUN 10	11.9 B ON APR 6	4 900 000	1959
1960	---	455 ON JUN 8	11.8 E ON DEC 21	2 980 000	1960
1961	---	1848 ON JUN 11	7.78E ON MAR 31 *	1 510 000	1961
1962	507 AT 08:00 CST ON MAY 30	504 ON MAY 28	12.8 B ON APR 24	3 660 000	1962
1963	---	331 ON MAY 31	17.0 B ON APR 4	3 710 000	1963
1964	278 AT 17:00 CST ON SEP 22	277 ON SEP 22	16.9 B ON APR 10	3 870 000	1964
1965	450 AT 14:30 CST ON JUN 12	450 ON JUN 12	20.2 ON APR 22	4 140 000	1965
1966	---	576 ON JUN 19	18.9 ON DEC 31	4 210 000	1966
1967	314 AT 18:30 CST ON JUN 13	311E ON JUN 11	14.0 A ON APR 27	2 830 000	1967
1968	---	287 ON MAY 26	18.4 ON APR 3	3 630 000	1968
1969	416 AT 13:00 CST ON OCT 18	416 ON OCT 15	21.3 E ON MAR 28	4 440 000	1969
1970	---	356 ON JUL 8	21.0 ON APR 18	4 370 000	1970
1971	300 AT 05:56 CST ON NOV 7	300 ON NOV 7	27.2 ON APR 14	5 130 000	1971
1972	284 AT 06:41 CST ON MAY 26	289 ON MAY 23	28.7 E ON APR 23	4 580 000	1972
1973	---	196 ON JUN 4	21.0 ON APR 28	2 920 000	1973
1974	230 AT 08:30 CST ON MAY 17	216 ON MAY 17	14.6 ON APR 18	2 150 000	1974
1975	186 AT 06:00 CST ON JUL 2	178 ON JUN 28	10.3 ON APR 12	2 130 000	1975
1976	377 AT 17:30 CST ON DEC 31	374 ON DEC 30	22.5 ON JAN 1	5 320 000	1976
1977	943 AT 12:00 CST ON NOV 16	940 ON NOV 15	340 B ON APR 2	18 100 000	1977
1978	---	980 ON OCT 13	600 B ON APR 28	27 100 000	1978
1979	---	9378 ON FEB 15	682 B ON MAY 13	27 400 000	1979
1980	881 AT 21:28 CST ON SEP 28	879 ON SEP 24	788 ON MAY 30	28 400 000	1980
1981	1 130 AT 21:30 CST ON JUL 26	1 120 ON JUL 25	618 B ON DEC 31	26 400 000	1981
1982	1 030 AT 10:04 CST ON SEP 29	1 030 ON SEP 29	578 B ON JAN 18	24 700 000	1982
1983	---	1 020E ON NOV 23	533 B ON APR 18	25 500 000	1983
1984	---	1 320 ON APR 28 *	778 ON SEP 15	30 800 000	1984
1985	1 200 AT 20:30 CST ON JUN 25 *	1 190 ON JUN 25	782 B ON APR 18	30 700 000R	1985
1986	1 150 ON MAY 18	1 150 ON MAY 18	680 ON JUL 2	25 800 000	1986
1987	1 090 AT 17:05 CST ON JUL 14	1 090 ON JUL 1	730 ON OCT 10	28 100 000	1987
1988	1 130 AT 02:36 CST ON MAY 10	1 130 ON MAY 10	726 B ON APR 28	26 000 000	1988
MEAN				12 800 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1986

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 05EA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1949	---	---	---	---	---	---	---	---	---	---	---	---	---	1949
1951	---	---	---	---	---	---	---	1 060	1 020	954	827	705	---	1951
1952	648	623	612	595	617	682	803	812	571	583	595	588	803	1952
1953	556	535	535	532	612	670	670	678	636	628	609	620	807	1953
1954	612	595	576	558	588	742	778	939	1 270	1 230	1 150	1 010	837	1954
1955	841	714	680	704	1 020	1 130	1 080	958	822	728	785	818	858	1955
1956	778	722	668	634	887	784	838	684	639	637	635	635	838	1956
1957	647	581	558	547	894	846	818	880	758	708	673	663	888	1957
1958	685	668	652	657	782	884	927	881	817	878	814	775	788	1958
1959	738	880	844	822	770	1 140	1 420	1 340	1 200	1 070	958	821	982	1959
1960	732	700	688	678	778	1 200	1 480	1 520	1 280	1 140	994	847	1 010	1960
1961	771	715	708	720	862	1 080	1 010	830	881	681	705	690	788	1961
1962	693	708	712	697	864	1 340	1 080	905	833	793	757	726	852	1962
1963	728	743	786	787	912	1 000	1 040	1 080	939	823	840	778	878	1963
1964	736	723	721	781	880	882	719	781	936	1 080	1 010	920	846	1964
1965	883	823	784	784	877	1 120	1 020	853	931	864	829	876	917	1965
1966	788	778	785	813	873	1 010	1 080	817	777	688	656	651	814	1966
1967	655	681	700	699	708	819	947	912	811	678	632	681	781	1967
1968	685	728	747	744	884	838	732	656	669	735	735	708	738	1968
1969	708	732	718	731	850	785	703	644	833	823	839	759	789	1969
1970	728	713	706	702	798	881	1 010	998	873	788	755	737	807	1970
1971	722	683	670	623	683	720	738	1 040	1 240	1 290	1 100	940	854	1971
1972	802	887	871	853	1 110	1 200	1 100	862	852	811	900	854	950	1972
1973	848	844	828	824	940	895	918	878	889	858	839	838	878	1973
1974	815	800	821	849	1 130	1 240	1 420	1 440	1 400	1 310	1 150	1 040	1 120	1974
1975	940	898	932	924	1 120	1 270	1 180	1 140	1 120	1 100	981	814	1 030	1975
1976	780	813	804	811	748	885	998	1 130	1 180	1 260	1 200	987	980	1976
1977	887	878	878	908	1 030	1 190	1 420	1 480	1 270	1 080	918	888	1 070	1977
1978	857	878	880	814	881	881	924	873	853	1 040	1 130	994	914	1978
1979	918	868	903	881	937	1 050	928	778	898	781	909	899	881	1979
1980	903	887	888	905	889	720	883	708	810	---	---	---	---	1980
1981	---	820	777	781	822	782	884	880	---	---	---	---	---	1981
1982	813	868	858	813	883	862	833	827	848	807	498	814	878	1982
1983	888	877	884	832	712	880	840	881	880	859	818	784	880	1983
1984	738	748	733	807	853	781	780	898	860	822	888	722	738	1984
1985	738	730	718	881	904	948	958	842	878R	811R	868R	848R	748R	1985
1986	883	741	750	750	885	903	780	873	745	878	712	758	771	1986
1987	---	---	---	---	923	854	782	762	---	---	---	---	---	1987
1988	787	781	732	720	787	758	838	978	708	708	837	800	887	1988
MEAN	781	740	729	724	843	923	917	894	878R	808R	823R	778R	824R	MEAN

LOCATION - LAT 55 08 00 N DRAINAGE AREA, 230 000 km²
LONG 100 27 20 W REGULATED SINCE 1928

R - REVISED SINCE JAN 01 1987

CHURCHILL RIVER ABOVE GRANVILLE FALLS - STATION NO. 05EA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1949	---	1 700 ON AUG 29 *	---	---	1949
1951	---	---	---	---	1951
1952	---	648E ON JAN 1	584 ON SEP 14	18 100 000	1952
1953	---	711 ON AUG 8	532E ON APR 1	18 300 000	1953
1954	---	1 280E ON SEP 7	558E ON APR 1	26 400 000	1954
1955	---	1 170 ON MAY 28	680E ON MAR 1	27 000 000	1955
1956	---	810E ON JUN 1	521E ON SEP 27	20 100 000	1956
1957	---	903 ON AUG 14	547E ON JAN 1	21 700 000	1957
1958	---	934E ON JUL 11	537E ON APR 11	24 800 000	1958
1959	1 480 AT 18:00 CST ON JUL 15	1 480 ON JUL 14	520E ON APR 13	30 100 000	1959
1960	---	1 500E ON AUG 1	558E ON MAY 1	31 800 000	1960
1961	---	1 100E ON JUN 11	643 ON SEP 27	24 900 000	1961
1962	---	1 370E ON JUN 1	585E ON JAN 1	26 900 000	1962
1963	---	1 180 ON JUL 28	726 ON JAN 1	27 700 000	1963
1964	---	1 100 ON OCT 10	685 ON JUL 31	26 800 000	1964
1965	---	1 180E ON JUN 1	759E ON APR 21	28 900 000	1965
1966	---	1 110 ON JUL 1	648 ON NOV 24	25 700 000	1966
1967	---	868E ON JUN 19	629 ON NOV 3	23 700 000	1967
1968	---	888E ON JUN 3	637 ON AUG 24	23 400 000	1968
1969	---	934 ON OCT 13	637 ON AUG 12	24 300 000	1969
1970	---	1 080 ON JUL 21	687 ON MAR 25	25 500 000	1970
1971	1 340 AT 01:13 CST ON OCT 13	1 330 ON OCT 12	501 ON APR 18	28 900 000	1971
1972	1 220 AT 20:29 CST ON JUN 16	1 220 ON JUN 17	624 ON SEP 21	30 100 000	1972
1973	1 020 AT 19:00 CST ON MAY 23	1 020 ON MAY 23	618 ON APR 12	27 800 000	1973
1974	---	1 480 ON JUL 24	783 ON FEB 19	35 300 000	1974
1975	1 300 AT 17:15 CST ON JUN 12	1 280 ON JUN 8	784 ON DEC 25	32 800 000	1975
1976	1 300 AT 20:05 CST ON OCT 26	1 300 ON OCT 27	580 ON JUN 14	30 000 000	1976
1977	1 480 AT 19:00 CST ON JUL 25 *	1 480 ON JUL 22	647 ON DEC 20	33 900 000	1977
1978	1 220 AT 09:50 CST ON NOV 1	1 210 ON OCT 30	601 ON APR 21	28 800 000	1978
1979	1 070 AT 16:49 CST ON JUN 18	1 070 ON JUN 18	685 ON SEP 21	27 800 000	1979
1980	---	975 ON MAY 3	684 ON JUL 3	---	1980
1981	875 AT 17:27 CST ON MAY 20	869 ON MAY 20	---	---	1981
1982	738 AT 18:00 CST ON MAY 22	730 ON MAY 21	488 ON NOV 3 *	18 200 000	1982
1983	899 AT 14:30 CST ON OCT 15	892 ON OCT 15	500 ON SEP 12	21 800 000	1983
1984	854 AT 16:10 CST ON MAY 2	842 ON MAY 2	586 ON OCT 15	23 300 000	1984
1985	988 AT 19:00 CST ON JUL 2	984 ON JUL 2	582RE ON NOV 19	23 600 000R	1985
1986	987 AT 16:18 CST ON JUN 6	956 ON JUN 6	827E ON JAN 1	24 300 000	1986
1987	958 AT 17:35 CST ON MAY 12	953 ON MAY 13	---	---	1987
1988	823 AT 15:00 CST ON MAY 21	812 ON MAY 18	530 ON AUG 6	22 100 000	1988
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1988		28 000 000R	MEAN

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 05ED004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	810	801	875	885	885	1 100	1 070	850	837	821	831	818	947	1973
1974	895	884	866	897	1 190	1 410	1 540	1 580	1 520	1 386	1 250	1 140	1 220	1974
1975	1 080	887	888	878	1 180	1 410	1 380	1 300	1 218	1 180	1 080	823	1 140	1975
1976	880	884	887	885	885	885	1 100	1 300	1 330	1 430	1 450	1 260	1 080	1976
1977	1 020	874	880	868	1 220	1 450	1 540	1 890	1 530	1 320	1 100	884	1 220	1977
1978	848	851	839	800	878	1 040	1 080	1 030	1 040	1 140	1 280	1 150	1 040	1978
1979	1 040	886	861	823	883	1 150	1 080	910	823	855	858	852	868	1979
1980	872	882	887	883	1 010	888	847	884	881	1 050	1 000	850	884	1980
1981	841	827	874	827	888	824	804	787	858	885	780	718	802	1981
1982	888	885	882	---	783	---	---	787	750	888	848	885	---	1982
1983	738	748	728	712	783	882	821	777	781	---	---	835	---	1983
1984	880	853	828	858	881	822	881	838	788	757	772	787	847	1984
1985	782	788	778	748	884	1 130	1 180	1 030	841	747	888	704	887	1985
1986	734	781	774	774	800	1 070	1 020	1 050	838	821	788	788	870	1986
1987	873	858	857	884	1 020	874	858	788	782	730	788	808	844	1987
1988	826	824	788	784	878	908	832	718	732	723	887	870	781	1988
MEAN	888	871	859	882	977	1 070	1 070	1 010	975	883	840	802	971	MEAN

LOCATION - LAT 58 29 37 N
LONG 100 02 55 W
DRAINAGE AREA, 244 000 km²
REGULATED SINCE 1938

CHURCHILL RIVER ABOVE LEAF RAPIDS - STATION NO. 05ED004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	1 130 ON JUN 6	855 ON APR 15	29 900 000	1973
1974	1 630 AT 03:00 CST ON JUL 27 *	1 610 ON JUL 21 *	855 ON FEB 25	38 300 000	1974
1975	1 480 AT 23:08 CST ON JUL 1	1 458 ON JUL 1	878 ON DEC 31	38 100 000	1975
1976	1 610 AT 03:12 CST ON NOV 6	1 480 ON OCT 28	833 ON JUN 18	34 800 000	1976
1977	1 610 AT 23:14 CST ON AUG 11	1 618 ON AUG 11	9298 ON APR 10	38 880 000	1977
1978	1 320 AT 03:32 CST ON NOV 8	1 310 ON NOV 8	881 ON APR 22	32 700 000	1978
1979	1 210 AT 04:00 CST ON JUN 28	1 180 ON JUN 28	808 ON SEP 28	30 500 000	1979
1980	1 070 AT 08:05 CST ON OCT 31	1 080 ON OCT 14	833 ON JUL 15	30 200 000	1980
1981	973 AT 08:14 CST ON JUN 30	972 ON MAY 30	845 ON SEP 28	25 300 000	1981
1982	---	---	828 ON APR 28 *	---	1982
1983	---	---	707 ON APR 13	---	1983
1984	1 010 AT 18:20 CST ON MAY 20	1 000 ON MAY 8	738 ON OCT 15	25 800 000	1984
1985	1 200 AT 05:08 CST ON JUL 7	1 180 ON JUL 7	891 ON NOV 23	27 300 000	1985
1986	1 120 AT 12:07 CST ON JUN 13	1 110 ON JUN 13	718 ON JAN 2	27 400 000	1986
1987	---	1 060 ON MAY 31	720 ON OCT 18	26 800 000	1987
1988	938 AT 11:50 CST ON JUN 30	933 ON JUN 3	884 ON DEC 28	24 700 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 800 000	MEAN

E - ESTIMATED

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 05FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	1 480	1 300	1 140	---	---	---	1 840	1 878	1 780	---	---	---	---	1972
1973	---	1 100	1 120	---	---	---	1 300	1 030	842	1 010	1 030	1 120	---	1973
1974	1 150	1 130	1 070	1 020	1 120	1 420	1 520	1 440	1 450	1 610	1 540	1 420	1 280	1974
1975	1 270	1 150	1 080	1 040	1 240	1 640	1 780	1 788	1 680	1 580	1 380	1 100	1 400	1975
1976	885	781	778	1 110	1 380	1 230	872	887	832	1 300	1 250	1 080	885	1976
1977	780	717	702	788	1 870	1 880	1 880	1 280	1 080	838	488	277	1 000	1977
1978	208	208	203	208	354	1 180	780	1 140	1 280	1 000	747	512	881	1978
1979	400	308	237	188	430	1 030	1 110	---	---	---	212	183	---	1979
1980	148	152	158	274	491	820	733	821	1 850	888	582	348	572	1980
1981	288	228	212	204	---	528	238	181	117	280	204	181	---	1981
1982	137	130	124	118	---	701	855	288	308	328	277	220	---	1982
1983	178	134	108	88.7	228	---	327	---	---	803	483	288	---	1983
1984	201	177	187	---	---	---	---	---	---	91.8	181	187	187	---	1984
1985	134	108	88.8	88.3	---	438	388	348	187	180	180	132	---	1985
1986	122	88.8	77.7	88.7	1 180	---	---	---	---	---	---	---	---	1986
1987	120	113	110	124	843	378	243	128	271	---	---	---	---	1987
1988	127	117	88.0	87.8	---	833	288	278	182	---	---	181	---	1988
MEAN	478	487	440	382	853	968	902	881	852	837	857	808	886	MEAN

LOCATION - LAT 58 07 15 N
LONG 94 37 30 W
DRAINAGE AREA, 287 000 km²
REGULATED SINCE 1928

CHURCHILL RIVER ABOVE RED HEAD RAPIDS - STATION NO. 05FD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	---	---	789 ON NOV 7	---	1973
1974	1 740 AT 08:00 CST ON AUG 10	1 720 ON AUG 9	1 020 B ON APR 10	43 000 000	1974
1975	1 810 AT 14:57 CST ON JUN 30	1 880 ON JUN 30	988 B ON DEC 31	44 200 000	1975
1976	---	1 850E ON JUN 5	634 ON JUL 10	31 500 000	1976
1977	2 000 AT 20:41 CST ON JUL 2 *	1 860 ON JUL 2	310 B ON DEC 20	31 800 000	1977
1978	1 870 AT 17:37 CST ON SEP 5	1 850 ON SEP 5	202 B ON MAR 25	20 500 000	1978
1979	1 200 AT 08:43 CST ON JUL 17	1 180 ON JUL 17	183 B ON DEC 31	---	1979
1980	---	2 220 ON SEP 8	148 B ON JAN 9	18 100 000	1980
1981	---	---	107 ON SEP 30	---	1981
1982	---	---	---	---	1982
1983	---	---	98.88 ON MAY 5 *	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	2 8568 ON MAY 17 *	---	---	1986
1987	---	8738 ON MAY 11	---	---	1987
1988	---	---	---	---	1988
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		31 500 000	MEAN

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 05FD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	1 450	---	---	---	1960
1962	---	---	---	---	---	---	2 140	1 820	---	---	---	---	---	1962
1963	---	---	---	---	---	---	1 580	---	---	---	---	---	---	1963
1964	---	---	---	---	---	---	1 130	---	---	1 340	1 320	1 290	---	1964
1965	1 200	1 110	1 020	1 100	1 250	1 440	1 410	1 300	1 180	---	---	---	---	1965
1966	---	---	---	---	---	---	---	---	---	824	828	784	---	1966
1967	788	740	---	---	---	---	1 350	1 230	1 090	881	---	---	---	1967
1968	746	767	781	800	929	1 310	1 290	1 100	1 010	1 080	1 070	935	985	1968
1969	788	727	783	851	973	1 100	1 110	987	1 130	1 350	1 270	1 100	1 020	1969
1970	883	815	756	899	824	1 320	1 310	1 290	1 270	1 220	1 230	1 100	1 070	1970
1971	942	893	881	787	1 070	1 100	1 520	1 410	1 390	1 530	1 540	1 260	1 210	1971
1972	1 260	1 170	1 130	1 080	1 240	1 470	1 540	1 430	1 290	1 180	1 100	1 120	1 250	1972
1973	1 100	1 030	992	956	1 120	1 240	1 220	990	918	951	1 040	1 090	1 060	1973
1974	1 110	1 070	1 020	977	1 020	1 270	1 430	1 580	1 550	1 520	1 450	1 370	1 280	1974
1975	1 290	1 190	1 100	1 050	1 190	1 440	1 690	1 680	1 540	1 450	1 320	1 060	1 340	1975
1976	878	804	761	1 100	1 240	884	473	525	775	1 110	1 240	1 180	921	1976
1977	895	867	733	758	1 370	1 750	1 550	1 180	919	748	480	258	985	1977
1978	199	199	198	203	408	856	532	769	892	713	711	809	533	1978
1979	535	377	220	169	281	481	848	487	188	196	177	147	337	1979
1980	129	128	127	171	225	348	483	480	1 180	810	386	290	374	1980
1981	241	207	204	188	271	185	99.3	76.1	84.6	184	183	128	170	1981
1982	120	108	113	113	181	248	375	117	138	200	172	135	169	1982
1983	117	88.4	88.8	86.2	93.9	---	---	---	---	---	---	---	---	1983
1984	181	151	137	---	---	---	---	81.7	88.8	130	186	124	---	1984
1985	113	98.4	77.8	---	---	---	245	287	83.0	143	138	114	---	1985
1986	101	88.4	86.8	47.8	276	849	1 060	817	282	145	138	115	288	1986
1987	98.7	79.0	76.3	93.8	173	138	103	76.4	87.4	105	162	130	110	1987
1988	110	104	78.8	85.7	201	242	137	127	98.8	90.2	193	142	131	1988
MEAN	808	888	814	883	722	924	1 030	840	774	807	741	884	734	MEAN

LOCATION - LAT 57 15 00 N
LONG 98 47 50 W

DRAINAGE AREA, 271 000 km^2
REGULATED SINCE 1928

CHURCHILL RIVER BELOW FIDLER LAKE - STATION NO. 06FB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	---	---	---	1980
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	1 550 ON JUN 19	---	---	1985
1986	---	---	---	---	1986
1987	---	---	---	---	1987
1988	---	1 380 ON JUN 22	738 B ON JAN 1	31 100 000	1988
1989	---	1 400 ON OCT 28	776 B ON FEB 3	32 290 000	1989
1970	---	1 340 ON JUN 15	888 B ON APR 14	33 700 000	1970
1971	1 800 AT 15:31 CST ON JUL 13	1 780 ON JUL 13	782 B ON APR 12	38 300 000	1971
1972	---	1 570 ON JUL 22	1 040 ON APR 18	38 500 000	1972
1973	1 260 AT 19:00 CST ON JUN 14	1 260 ON JUN 14	883 ON AUG 26	33 200 000	1973
1974	1 570 AT 22:00 CST ON AUG 28	1 570 ON AUG 18	956 ON APR 17	40 400 000	1974
1975	1 710 AT 20:45 CST ON JUL 8	1 700 ON JUL 8	1 010 B ON DEC 30	42 100 000	1975
1976	1 580 AT 14:30 CST ON JUN 3	1 540 ON JUN 3	493 ON JUL 8	28 100 000	1976
1977	1 920 AT 14:07 CST ON JUN 22 *	1 910 ON JUN 20 *	189 B ON DEC 20	30 500 000	1977
1978	1 470 AT 20:31 CST ON SEP 2	1 460 ON SEP 4	199 B ON JAN 1	16 800 000	1978
1979	902 AT 14:27 CST ON JUL 18	895 ON JUL 18	116 E ON SEP 23	10 600 000	1979
1980	1 710 AT 14:04 CST ON SEP 7	1 710 ON SEP 7	127 B ON MAR 6	11 800 000	1980
1981	371 AT 20:47 CST ON MAY 22	367 ON MAY 22	80.3 ON SEP 20	5 360 000	1981
1982	---	513 ON JUL 10	98.1 ON AUG 14	5 330 000	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	1 320 AT 10:05 CST ON JUL 18	1 310 ON JUL 17	40.58 ON APR 28 *	9 410 000	1986
1987	199 AT 17:00 CST ON MAY 4	198 ON MAY 4	68.58 ON APR 14	3 480 000	1987
1988	280 AT 18:18 CST ON JUN 10	278 ON JUN 8	89.8 ON OCT 19	4 150 000	1988
				23 200 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	89.9	88.8	77.5	---	---	---	---	188	188	---	---	---	---	1968
1969	142	112	98.1	89.0	122	---	---	---	---	---	---	---	---	1969
1970	114	106	97.3	---	---	---	128	121	149	189	186	137	---	1970
1971	121	112	103	---	---	---	---	---	201	219	189	185	---	1971
1972	143	117	94.9	97.4	190	242	254	234	228	211	177	166	178	1972
1973	147	133	121	110	183	192	188	170	142	134	125	111	145	1973
1974	104	89.1	98.4	85.7	---	---	175	184	178	181	142	129	---	1974
1975	117	109	103	104	178	212	237	220	190	175	154	138	162	1975
1976	130	126	124	145	187	229	238	187	198	218	189	173	180	1976
1977	155	144	139	172	252	314	366	336	295	268	236	194	240	1977
1978	156	131	116	113	209	260	247	272	272	260	226	195	205	1978
1979	170	141	120	111	181	207	204	168	152	153	140	127	155	1979
1980	115	107	103	131	157	148	153	209	246	220	184	152	161	1980
1981	128	122	119	120	176	205	197	184	145	128	109	94.6	143	1981
1982	88.7	86.7	81.8	79.8	171	214	188	180	151	148	131	117	135	1982
1983	108	104	99.6	97.8	119	192	210	223	261	253	217	186	171	1983
1984	148	128	107	148	231	231	203	188	178	182	134	117	164	1984
1985	115	115	115	115	234	248	194	180	187	224	172	128	167	1985
1986	113	109	114	122	243	413	358	281	---	---	---	---	---	1986
1987	136	134	130	138	208	257	235	172	136	128	118	107	158	1987
1988	107	101	95.1	89.5	161	231	242	206	163	140	134	138	150	1988
MEAN	127	115	107	115	185	237	223	202	191	187	165	142	165	MEAN

LOCATION - LAT 58 00 00 N
LONG 101 23 45 W
DRAINAGE AREA, 28 400 km^2
NATURAL FLOW

COCHRANE RIVER NEAR BROCHET - STATION NO. 06DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	---	---	---	1968
1969	---	---	---	---	1969
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	285 AT 16:00 CST ON JUN 28	284 ON JUN 28	84.1B ON APR 4	5 870 000	1972
1973	303 AT 15:45 CST ON JUN 12	302 ON JUN 13	106 B ON APR 23	4 570 000	1973
1974	---	---	---	---	1974
1975	248 AT 14:17 CST ON JUL 12	243 ON JUL 10	101 B ON APR 6	5 100 000	1975
1976	257 AT 19:25 CST ON JUN 28	255 ON JUN 27	124 B ON FEB 27	5 880 000	1976
1977	388 AT 16:23 CST ON JUL 22 *	385 ON JUL 21	139 B ON MAR 6	7 570 000	1977
1978	308 AT 13:30 CST ON AUG 24	303 ON AUG 23	112 B ON MAR 29	6 470 000	1978
1979	215 AT 19:20 CST ON MAY 22	215 ON MAY 22	110 B ON APR 10	4 870 000	1979
1980	284 AT 10:01 CST ON SEP 1	283 ON AUG 31	102 B ON MAR 21	5 080 000	1980
1981	212 AT 12:00 CST ON JUN 18	212 ON JUN 17	92.1B ON DEC 31	4 510 000	1981
1982	222 AT 19:25 CST ON JUN 15	222 ON JUN 15	78.0B ON APR 18 *	4 260 000	1982
1983	270 AT 19:05 CST ON SEP 27	270 ON SEP 27	96.5B ON MAY 5	5 400 000	1983
1984	267	264 ON APR 27	93.4B ON APR 9	5 180 000	1984
1985	261 AT 07:45 CST ON MAY 24	258 ON MAY 24	115 B ON JAN 1	5 280 000	1985
1986	---	447A ON JUN 18 *	---	---	1986
1987	270 AT 13:10 CST ON JUN 20	269 ON JUN 20	106 B ON DEC 26	4 980 000	1987
1988	256 AT 14:00 CST ON JUL 13	253 ON JUL 11	87.3B ON APR 27	4 730 000	1988
				5 290 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.048	0.051	0.002	0.084	0.018	0	0	0	---	---	0.025	1959
1980	---	---	0	1.05	0.170	0.107	0	0	0	0	---	---	0.184	1980
1981	---	---	0.002	0.001	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.361	0.089	0	0	0	0	0	---	---	0.053	1982
1983	---	---	0.193	0.057	0	0	0	0	0	0	---	---	0.031	1983
1984	---	---	0	0.288	0.080	0	0	0	0	0	---	---	0.048	1984
1985	---	---	0	0.558	0.100	0.015	0	0	0.035	0.038	---	---	0.092	1985
1986	---	---	0.035	0.939	0.225	0.008	0.001	0	0	0	---	---	0.149	1986
1987	---	---	0	0.408	0.251	0.002	0	0	0	0	---	---	0.082	1987
1988	---	---	0.184	0.293	0.008	0	0	0	0	0	---	---	0.060	1988
1989	---	---	0	0.890	0.009	0	0.005	0	0	0	---	---	0.088	1989
1970	---	---	0	0.493	0.385	0.008	0	0	0	0	---	---	0.110	1970
1971	---	---	0	0.480	0.038	0.178	0.146	0.013	0	0.010	---	---	0.104	1971
1972	---	---	0	1.19	0.204	0	0	0	0	0	---	---	0.172	1972
1973	---	---	0.055	0.005	0	0.026	0	0.005	0.185	0.180	---	---	0.052	1973
1974	---	---	0	1.81	0.839	0.096	0	0	0	0	---	---	0.326	1974
1975	---	---	0	0.785	0.222	0.038	0	0	0.036	0.018	---	---	0.137	1975
1976	---	---	0.001	1.45	0.063	0.235	0.098	0.153	0.128	0	---	---	0.262	1976
1977	---	---	0	0.273	0.112	0.012	0.022	0.070	0.021	0.018	---	---	0.065	1977
1978	---	---	0.005	0.726	0.113	0.002	0	0.038	0.005	0.005	---	---	0.110	1978
1979	---	---	0	1.38	0.841	0.039	0	0	0	0	---	---	0.282	1979
1980	---	---	0	0.175	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.130	0.138	0	0	0.001	0.001	0	0	---	---	0.034	1981
1982	---	---	0.003	0.288	0.003	0	0	0	0	0	---	---	0.037	1982
1983	---	---	0	0.804	0.130	0.018	0.217	0.002	0	0	---	---	0.148	1983
1984	---	---	0.081	0.048	0.009	0.004	0	0	0	0	---	---	0.018	1984
1985	---	---	0	0.848	0.012	0.001	0	0	0.001	0.036	---	---	0.110	1985
1986	---	---	0.250	1.31	0.207	0.048	0.041	0.002	0	0	---	---	0.229	1986
1987	---	---	0	0.894	0.003	0	0.009	0.002	0.001	0.003	---	---	0.124	1987
1988	---	---	0.006	0.745	0.345	0	0	0	0	0	---	---	0.138	1988
MEAN	---	---	0.032	0.525	0.142	0.031	0.019	0.010	0.013	0.008	---	---	0.109	MEAN

LOCATION - LAT 50 47 30 N, LONG 101 17 55 W
DRAINAGE AREA, 88.1 km^2
NATURAL FLOW

CONJURING CREEK NEAR RUSSELL - STATION NO. 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	0.851 ON MAR 30	0.0 ON MAR 1 *	526	1959
1960	---	5.47 ON APR 13	0.0 ON MAR 1	3 470	1960
1961	---	0.0088 ON MAR 21	0.0 ON MAR 1	8.29	1961
1962	---	3.78 B ON APR 20	0.0 ON MAR 1	1 120	1962
1963	---	1.08 B ON MAR 24	0.0 ON MAR 1	884	1963
1964	---	1.61 B ON APR 18	0.0 ON MAR 1	1 010	1964
1965	---	4.19 ON APR 14	0.0 ON MAR 1	1 950	1965
1966	---	3.34 ON APR 3	0.0 ON MAR 1	3 180	1966
1967	---	2.61 B ON APR 23	0.0 ON MAR 1	1 740	1967
1968	---	0.0068 ON MAR 26	0.0 ON MAR 1	1 270	1968
1969	---	4.11 ON APR 11	0.0 ON MAR 1	1 830	1969
1970	---	1.40 ON APR 30	0.0 ON MAR 1	2 330	1970
1971	---	1.84 B ON APR 8	0.0 ON MAR 1	2 210	1971
1972	---	4.19 ON APR 21	0.0 ON MAR 1	3 840	1972
1973	---	1.00 ON OCT 5	0.0 ON MAR 1	1 100	1973
1974	15.8 B AT 22:16 CST ON APR 18 *	12.5 ON APR 19 *	0.0 ON MAR 1	6 910	1974
1975	5.76 B AT 08:11 CST ON APR 21	4.38 B ON APR 21	0.0 ON MAR 1	2 680	1975
1976	---	5.18 B ON APR 7	0.0 ON MAR 1	5 580	1976
1977	---	1.11 B ON APR 7	0.0 ON MAR 1	1 380	1977
1978	---	1.94 ON APR 18	0.0 ON MAR 1	2 330	1978
1979	8.86 B AT 13:45 CST ON APR 22	7.30 B ON APR 22	0.0 ON MAR 1	5 980	1979
1980	---	1.02 B ON APR 9	0.0 ON MAR 1	458	1980
1981	0.882 AT 06:38 CST ON MAR 31	0.860 ON MAR 31	0.0 ON MAR 1	714	1981
1982	1.38 AT 07:51 CST ON APR 16	0.974 ON APR 15	0.0 ON MAR 1	783	1982
1983	4.20 AT 20:54 CST ON APR 21	3.86 ON APR 22	0.0 ON MAR 1	3 080	1983
1984	1.85 B AT 08:30 CST ON MAR 28	1.17 B ON MAR 28	0.0 ON MAR 1	322	1984
1985	3.14 B AT 10:41 CST ON APR 10	2.52 B ON APR 11	0.0 ON MAR 1	2 320	1985
1986	4.39 B AT 08:45 CST ON APR 2	3.80 B ON APR 2	0.0 ON MAR 1	4 850	1986
1987	---	5.18 B ON APR 8	0.0 ON MAR 1	2 630	1987
1988	4.88 B AT 17:00 CST ON APR 4	4.73 B ON APR 4	0.0 ON MAR 1	2 870	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 300	MEAN

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	20.2	1.78	0.164	0.038	0.157	0.037	0.033	---	---	2.76	1980
1981	---	---	0.671	1.80	0.065	0.019	0.007	0	0	0	---	---	0.328	1981
1982	---	---	0	2.76	1.57	1.42	1.46	0.326	0.005	0.003	---	---	0.936	1982
1983	---	---	0.754	4.22	0.784	3.49	0.699	0.050	0.004	0.023	---	---	1.24	1983
1984	---	---	0.011	4.14	2.35	0.592	0.022	0	0.058	0	---	---	0.888	1984
1985	---	---	0	6.20	1.21	1.82	0.707	0.068	0.103	0.121	---	---	1.26	1985
1986	---	---	0	15.9	5.58	1.20	0.43	0.093	0.454	0.065	---	---	3.94	1986
1987	---	---	0.039	15.6	2.31	0.087	0.017	0.015	0.010	0	---	---	2.24	1987
1988	---	---	0.385	1.24	0.548	0.199	0.295	2.80	1.28	0.754	---	---	0.937	1988
1989	---	---	0	7.84	1.45	1.37	0.258	0.074	0.088	0.130	---	---	1.39	1989
1970	---	---	0	10.0	3.87	3.23	0.103	0.017	0.958	0.056	---	---	2.25	1970
1971	---	---	0	11.8	0.858	0.080	0.032	0.008	0	0.035	---	---	1.84	1971
1972	---	---	0.008	6.15	0.473	0.115	0.001	0.004	0.053	0.076	---	---	0.845	1972
1973	---	---	2.23	0.238	0.068	1.41	0.558	0.003	0.115	0.827	---	---	0.658	1973
1974	---	---	0	23.2	15.6	1.43	0.030	0	0.016	0.131	---	---	5.00	1974
1975	---	---	0	2.69	0.225	3.18	0.334	0	0	0.081	---	---	0.788	1975
1976	---	---	0	6.04	0.078	1.12	0.060	0.014	0.003	0	---	---	0.897	1976
1977	---	---	0.012	0.475	0.081	0.108	0.208	0.093	2.24	0.414	---	---	0.448	1977
1978	---	---	0	14.3	1.28	0.256	0.032	0.030	0	0	---	---	1.85	1978
1979	---	---	0	14.2	6.84	2.48	0.018	0	0	0	---	---	2.88	1979
1980	---	---	0	4.88	0.085	0.003	0	0	0	0	---	---	0.619	1980
1981	---	---	0.588	0.187	0	0	0	0	0	0	---	---	0.092	1981
1982	---	---	0.374	3.14	0.087	0.253	0.134	0.010	0	0.151	---	---	0.509	1982
1983	---	---	0.526	8.15	0.450	0.243	0.295	0	0	0	---	---	1.20	1983
1984	---	---	0.137	0.595	0.021	2.68	0.298	0.002	0	0.080	---	---	0.467	1984
1985	---	---	1.53	1.44	0.103	0	0	1.59	0.052	0.409	---	---	0.844	1985
1986	---	---	4.40	8.82	5.78	0.135	0.452	0.448	0.058	0.085	---	---	2.49	1986
1987	---	---	0.013	8.23	0.101	---	---	0.531	0.587	1.23	---	---	---	1987
1988	---	---	0.015	0.842	0.025	0.042	0.070	0	0	0	---	---	0.122	1988
MEAN	---	---	0.406	7.09	1.84	0.957	0.520	0.218	0.211	0.153	---	---	1.40	MEAN

LOCATION - LAT 50 01 12 N DRAINAGE AREA, 513 km^2
LONG 96 46 23 W NATURAL FLOW

COOKS CREEK AT COOKS CREEK - STATION NO. 05OJ006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	91.9 ON APR 13 *	0B ON MAR 1 *	58 100	1980
1981	---	5.38 ON APR 10	0B ON MAR 1	8 850	1981
1982	---	17.8 ON APR 22	0B ON MAR 1	19 800	1982
1983	---	32.3 ON JUN 5	0 ON SEP 10	26 100	1983
1984	---	16.2 ON APR 17	0 ON JUL 21	18 800	1984
1985	---	35.0 B ON APR 13	0B ON MAR 1	26 700	1985
1986	---	42.8 ON JUL 4	0B ON MAR 1	83 400	1986
1987	---	42.5 ON APR 21	0B ON MAR 1	47 800	1987
1988	---	22.9 ON AUG 25	0 ON MAR 1	19 800	1988
1989	---	32.6 B ON APR 10	0B ON MAR 1	29 800	1989
1970	---	33.7 ON APR 17	0B ON MAR 1	47 800	1970
1971	51.8 AT 03:02 CST ON APR 10	47.3 ON APR 10	0B ON MAR 1	32 700	1971
1972	26.3 B AT 08:43 CST ON APR 15	25.3 B ON APR 15	0 ON JUL 5	17 800	1972
1973	16.2 AT 03:22 CST ON JUN 21	12.7 ON JUN 21	0B ON MAR 1	13 800	1973
1974	78.2 B AT 12:19 CST ON APR 18 *	74.5 B ON APR 18	0B ON MAR 1	106 000	1974
1975	45.6 AT 15:44 CST ON JUN 23	35.1 ON JUN 23	0B ON MAR 1	16 700	1975
1976	---	26.2 B ON APR 6	0B ON MAR 1	19 000	1976
1977	11.0 AT 16:12 CST ON SEP 10	9.03 ON SEP 10	0B ON MAR 1	9 470	1977
1978	---	26.9 B ON APR 12	0B ON MAR 1	41 400	1978
1979	74.5 B AT 03:39 CST ON APR 20	73.6 B ON APR 20	0B ON MAR 1	61 000	1979
1980	25.0 B AT 07:42 CST ON APR 8	22.3 B ON APR 8	0B ON MAR 1	13 100	1980
1981	4.678 AT 00:30 CST ON MAR 27	2.288 ON MAR 27	0B ON MAR 1	1 950	1981
1982	13.6 AT 08:31 CST ON APR 14	12.3 B ON APR 16	0B ON MAR 1	10 800	1982
1983	28.6 B AT 11:10 CST ON APR 6	27.9 B ON APR 6	0B ON MAR 1	25 400	1983
1984	17.3 AT 03:14 CST ON JUN 18	14.8 ON JUN 18	0B ON MAR 6	9 890	1984
1985	24.3 AT 15:30 CST ON AUG 24	17.1 ON AUG 25	0B ON MAR 1	13 600	1985
1986	---	46.0 B ON MAR 31	0B ON MAR 1	52 800	1986
1987	---	36.0 B ON APR 7	---	---	1987
1988	---	8.358 ON APR 5	0B ON MAR 1	2 580	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		29 700	MEAN

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	5.06	12.6	1.34	0.575	0.316	0.021	0	0	---	---	2.47	1957
1958	---	---	0.073	0.132	0.031	0.004	3.32	0.047	0	0	---	---	0.328	1958
1959	---	---	0.008	9.88	4.81	4.85	0.335	2.40	2.70	14.8	---	---	4.84	1959
1960	---	---	0	29.3	2.03	0.546	0.007	0.175	0.008	0	---	---	3.94	1960
1961	---	---	1.04	2.91	0.322	0.123	0	0	0	0	---	---	0.543	1961
1962	---	---	0	6.12	1.82	1.84	1.86	0.736	0.017	0	---	---	1.50	1962
1963	---	---	0.837	5.38	0.880	3.56	0.610	0.042	0	0	---	---	1.38	1963
1964	---	---	0	6.26	2.81	0.934	0.053	0	0.006	0	---	---	1.26	1964
1965	---	---	0	7.70	1.27	1.26	0.585	0.082	0.051	0.087	---	---	1.36	1965
1966	---	---	0	25.6	7.33	0.988	5.14	0.032	0.525	0.030	---	---	5.04	1966
1967	---	---	0.027	22.1	2.30	0.111	0.020	0	0	0	---	---	3.02	1967
1968	---	---	0.806	2.16	0.572	0.206	0.390	3.01	1.46	0.840	---	---	1.16	1968
1969	---	---	0	10.3	1.56	1.92	0.407	0.029	0.050	0.273	---	---	1.79	1969
1970	---	---	0	12.5	4.82	4.34	0.387	0	0.441	0.152	---	---	2.81	1970
1971	---	---	0	19.5	0.745	0.149	0.041	0	0	0	---	---	2.50	1971
1972	---	---	0	8.60	0.439	0.008	0	0.070	0.003	0.013	---	---	1.27	1972
1973	---	---	3.02	0.242	0.007	2.75	0.386	0	0.186	0.826	---	---	0.938	1973
1974	---	---	0	31.3	20.9	1.77	0.026	0.001	0.001	0.001	---	---	5.70	1974
1975	---	---	0	5.06	0.184	1.82	0.137	0.006	0.005	0.003	---	---	0.898	1975
1976	---	---	0	9.27	0.072	2.75	0.083	0	0	0	---	---	1.48	1976
1977	---	---	0.001	0.548	0.014	0	0.127	0	2.25	0.493	---	---	0.423	1977
1978	---	---	0.017	15.8	1.72	0.402	0.268	0.005	0.002	0.001	---	---	2.36	1978
1979	---	---	0	18.4	4.78	3.01	0.006	0	0.022	0	---	---	3.23	1979
1980	---	---	0	8.00	0	0.004	0	0	0	0	---	---	0.980	1980
1981	---	---	0.428	0.046	0.015	0	0.002	0	0	0.015	---	---	0.064	1981
1982	---	---	0.644	5.80	0.037	0.333	0.209	0	0	0.243	---	---	1.02	1982
1983	---	---	0.784	11.3	0.313	0.119	0.247	0	0	0	---	---	1.87	1983
1984	---	---	0.183	0.982	0	2.86	0.249	0	0	0.003	---	---	0.538	1984
1985	---	---	4.04	2.38	0.218	0	0	2.18	0.130	0.801	---	---	1.20	1985
1986	---	---	5.43	11.5	6.85	0.124	0.383	0.671	0	0.003	---	---	3.08	1986
1987	---	---	0.008	12.1	0.068	0.024	0.042	0.722	0.003	0	---	---	1.59	1987
1988	---	---	0.025	1.65	0	0	0	0	0	0	---	---	0.205	1988
MEAN	---	---	0.701	9.98	2.12	1.17	0.481	0.320	0.247	0.871	---	---	1.82	MEAN

LOCATION - LAT 50 06 25 N DRAINAGE AREA, 898 km^2
LONG 96 48 48 W NATURAL FLOW

COOKS CREEK NEAR EAST SELKIRK - STATION NO. 05OJ002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	83.7 ON APR 25	08 ON MAR 1 *	52 200	1957
1958	---	32.8 E ON JUL 8	08 ON MAR 1	6 980	1958
1959	---	47.9 ON OCT 11	08 ON MAR 1	105 000	1959
1960	227 AT 08:30 ON APR 14 *	201 ON APR 14 *	08 ON MAR 1	83 300	1960
1961	---	9.548 ON MAR 27	08 ON MAR 1	11 500	1961
1962	---	46.7 ON APR 21	08 ON MAR 1	31 800	1962
1963	---	36.6 ON APR 9	08 ON MAR 1	29 500	1963
1964	---	26.2 ON APR 17	08 ON MAR 1	28 400	1964
1965	---	35.4 B ON APR 13	08 ON MAR 1	26 800	1965
1966	---	59.2 ON APR 14	08 ON MAR 1	105 000	1966
1967	---	52.1 ON APR 15	08 ON MAR 1	63 800	1967
1968	---	19.2 ON AUG 26	08 ON MAR 1	24 500	1968
1969	---	56.6 ON APR 10	08 ON MAR 1	37 900	1969
1970	---	43.0 ON APR 17	08 ON MAR 1	59 500	1970
1971	---	62.8 B ON APR 11	08 ON MAR 1	53 000	1971
1972	---	45.3 B ON APR 15	0 ON MAR 1	26 800	1972
1973	27.8 AT 19:38 CST ON JUN 21	22.7 ON JUN 21	08 ON MAR 1	19 800	1973
1974	112 B AT 17:15 CST ON APR 18	106 B ON APR 18	08 ON MAR 1	142 000	1974
1975	32.8 AT 08:00 CST ON JUN 24	28.1 ON JUN 24	08 ON MAR 1	19 000	1975
1976	---	45.0 B ON APR 6	08 ON MAR 1	31 600	1976
1977	9.20 AT 10:48 CST ON SEP 11	8.84 ON SEP 11	08 ON MAR 1	8 950	1977
1978	39.9 AT 22:30 CST ON APR 11	37.1 ON APR 12	08 ON MAR 1	50 000	1978
1979	106 A AT 20:00 CST ON APR 20	99.4 ON APR 21	08 ON MAR 1	88 300	1979
1980	45.6 AT 22:00 CST ON APR 8	43.8 ON APR 8	08 ON MAR 1	20 700	1980
1981	4.94 AT 10:03 CST ON MAR 29	1.29 ON MAR 28	08 ON MAR 1	1 380	1981
1982	25.2 AT 01:26 CST ON APR 15	23.8 ON APR 15	08 ON MAR 1	21 500	1982
1983	40.0 B AT 18:33 CST ON APR 6	36.6 B ON APR 7	08 ON MAR 1	33 300	1983
1984	15.9 AT 18:51 CST ON JUN 18	12.1 ON JUN 19	08 ON MAR 1	11 400	1984
1985	22.1 B AT 01:11 CST ON MAR 26	20.0 B ON MAR 26	08 ON MAR 1	25 300	1985
1986	82.4 B AT 01:31 CST ON MAR 31	80.4 B ON MAR 31	08 ON MAR 1	85 100	1986
1987	---	56.6 A ON APR 8	08 ON MAR 1	33 700	1987
1988	---	9.788 ON APR 5	08 ON MAR 1	4 350	1988
				40 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	5.17	1.25	0.488	0.007	0.038	0.004	0.004	---	---	0.877	1980
1981	---	---	0.154	0.320	0.010	0.055	0	0	0.001	0.003	---	---	0.067	1981
1982	---	---	0	0.308	0.721	0.648	0.710	0.063	0.005	0.002	---	---	0.308	1982
1983	---	---	0.220	0.852	0.152	1.52	0.726	0.065	0.002	0.004	---	---	0.414	1983
1984	---	---	0	0.977	1.78	0.422	0.008	0	0.001	0.001	---	---	0.395	1984
1985	---	---	0	1.58	0.735	0.744	0.609	0.068	0.075	0.103	---	---	0.486	1985
1986	---	---	0	4.82	2.67	0.840	4.10	0.183	0.298	0.103	---	---	1.84	1986
1987	---	---	0.005	8.38	1.85	0.100	0.001	0	0	0	---	---	1.03	1987
1988	---	---	0.241	0.812	0.211	0.146	0.080	0.750	0.588	0.215	---	---	0.343	1988
1989	---	---	0	2.92	1.03	0.535	0.139	0.043	0.069	0.101	---	---	0.800	1989
1970	---	---	0	3.14	2.09	1.38	0.110	0.003	0.025	0.030	---	---	0.838	1970
1971	---	---	0	2.17	0.237	0.039	0.015	0.004	0.007	0.040	---	---	0.306	1971
1972	---	---	0	2.30	0.292	0.021	0.002	0.006	0.023	0.005	---	---	0.328	1972
1973	---	---	0.854	0.083	0.033	0.197	0.136	0.003	0.084	0.334	---	---	0.193	1973
1974	---	---	0	5.89	7.36	1.16	0.078	0.055	0.043	0.021	---	---	1.84	1974
1975	---	---	0	0.815	0.051	0.883	0.542	0.001	0.001	0.003	---	---	0.288	1975
1976	---	---	0	1.48	0.058	0.215	0.015	0.001	0	0.001	---	---	0.217	1976
1977	---	---	0	0.183	0.018	0.047	0.088	0.028	0.488	0.235	---	---	0.132	1977
1978	---	---	0.020	5.33	0.817	0.200	0.035	0.002	0.003	0.001	---	---	0.788	1978
1979	---	---	0	3.81	1.02	0.887	0.034	0.008	0.008	0.006	---	---	0.700	1979
1980	---	---	0	1.04	0.013	0.001	0.001	0.001	0.004	0.004	---	---	0.130	1980
1981	---	---	0.018	0.017	0.022	0.010	0.008	0	0.003	0.008	---	---	0.011	1981
1982	---	---	0.148	1.18	0.127	0.364	0.149	0.018	0.001	0.108	---	---	0.258	1982
1983	---	---	0.282	2.08	0.269	0.153	0.121	0	0	0	---	---	0.362	1983
1984	---	---	0.022	0.136	0.028	1.83	0.293	0.002	0	0.003	---	---	0.280	1984
1985	---	---	0.648	0.300	0.052	0.002	0.007	1.08	0.031	0.158	---	---	0.287	1985
1986	---	---	0.831	2.17	2.37	0.198	0.383	0.237	0.001	0.010	---	---	0.788	1986
1987	---	---	0.004	2.50	0.075	0.013	0.001	0.024	0.001	0.003	---	---	0.322	1987
1988	---	---	0.001	0.187	0.025	0.053	0.007	0	0	0	---	---	0.035	1988
MEAN	---	---	0.116	2.07	0.875	0.456	0.290	0.093	0.082	0.052	---	---	0.497	MEAN

LOCATION - LAT 49 53 10 N
LONG 96 44 26 W
DRAINAGE AREA, 183 km^2
NATURAL FLOW

COOKS CREEK NEAR GLASS - STATION NO. 05OJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	22.0 ON APR 12	0B ON MAR 1 *	20 700	1980
1981	---	1.14 B ON MAR 26	0B ON MAR 1	1 420	1981
1982	---	5.86 ON JUL 20	0B ON MAR 1	6 540	1982
1983	---	13.5 ON JUN 4	0 ON MAR 1	8 770	1983
1984	---	9.17 ON MAY 6	0B ON MAR 1	6 380	1984
1985	---	7.87 B ON APR 14	0B ON MAR 1	10 300	1985
1986	---	18.5 ON JUL 3	0B ON MAR 1	34 800	1986
1987	---	12.2 B ON APR 11	0B ON MAR 1	21 800	1987
1988	---	5.24 ON AUG 24	0B ON MAR 1	7 270	1988
1989	---	14.3 ON APR 9	0 ON MAR 1	12 700	1989
1970	16.1 AT 20:21 CST ON APR 16	13.8 ON APR 16	0A ON MAR 1	17 800	1970
1971	---	10.2 ON APR 10	0B ON MAR 1	6 530	1971
1972	---	6.07 B ON APR 15	0B ON MAR 1	6 800	1972
1973	5.30 AT 20:57 CST ON JUN 20	2.31 ON OCT 13	0B ON MAR 1	4 080	1973
1974	28.9 AT 15:16 CST ON MAY 22 *	28.1 ON MAY 22 *	0B ON MAR 1	41 100	1974
1975	14.5 AT 01:23 CST ON JUN 23	10.6 ON JUN 23	0B ON MAR 1	5 880	1975
1976	---	8.10 ON APR 6	0B ON MAR 1	4 590	1976
1977	4.16 AT 20:51 CST ON SEP 9	2.30 ON SEP 10	0B ON MAR 1	2 810	1977
1978	---	8.86 ON APR 11	0B ON MAR 1	16 700	1978
1979	---	18.7 ON APR 20	0B ON MAR 1	14 800	1979
1980	---	8.46 B ON APR 8	0B ON MAR 1	2 750	1980
1981	0.200 AT 09:00 CST ON MAY 25	0.178 ON MAY 25	0B ON MAR 1	230	1981
1982	5.30 AT 18:57 CST ON APR 14	4.03 B ON APR 13	0B ON MAR 1	5 480	1982
1983	---	5.33 B ON APR 1	0B ON MAR 1	7 870	1983
1984	10.2 AT 10:55 CST ON JUN 17	8.75 ON JUN 17	0B ON MAR 1	6 510	1984
1985	18.7 AT 12:36 CST ON AUG 24	17.0 ON AUG 24	0B ON MAR 1	8 080	1985
1986	10.7 AT 08:43 CST ON MAY 1	8.84 ON MAY 1	0B ON MAR 1	16 700	1986
1987	---	11.2 B ON APR 7	0B ON MAR 1	6 810	1987
1988	1.48 B AT 07:27 CST ON APR 5	1.08 B ON APR 5	0B ON MAR 1	737	1988
				10 600	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.288	0.028	0.028	0.034	0	0.018	0.001	0.001	---	---	0.050	1959
1960	---	---	0	2.45	0.008	0.003	0	0	0	0	---	---	0.302	1960
1961	---	---	0.812	0.439	0.010	0.001	0	0	0	0	---	---	0.133	1961
1962	---	---	0	1.58	0.018	0.013	0.001	0.024	0	0	---	---	0.202	1962
1984	---	---	0.037	0.200	0.009	0.005	0	0	0	0	---	---	0.031	1984
1985	---	---	0	0.186	0.188	0	0	0	0	0	---	---	0.043	1985
1986	---	---	1.05	0.228	0.038	0	0	0	0	0	---	---	0.196	1986
1987	---	---	0.040	0.418	0.032	0	0	0	0	0	---	---	0.080	1987
1988	---	---	0.158	0.045	0	0	0.052	0.743	0.128	0	---	---	0.142	1988
1989	---	---	0	2.87	0.022	0.021	0.033	0	0	0	---	---	0.335	1989
1970	---	---	0	2.05	0.127	0.423	0.003	0	0.011	0	---	---	0.320	1970
1971	---	---	0	1.73	0.147	0	0	0	0	0	---	---	0.230	1971
1972	---	---	1.39	1.27	0.013	0	0	0	0	0	---	---	0.333	1972
1973	---	---	0.008	0.001	0	0	0	0	0	0	---	---	0.001	1973
1974	---	---	0	3.46	1.38	0.130	0.002	0	0	0	---	---	0.811	1974
1975	---	---	0	0.583	0.087	0.010	0.001	0	0	0	---	---	0.084	1975
1976	---	---	0	2.61	0.047	0.001	0	0	0	0	---	---	0.325	1976
1977	---	---	0.003	0.005	0.024	0	0	0	0.001	0	---	---	0.004	1977
1978	---	---	0.038	1.17	0.147	0.021	0.022	0	0	0	---	---	0.172	1978
1979	---	---	0	2.30	0.808	0.074	0.001	0	0	0	---	---	0.387	1979
1980	---	---	0.003	0.187	0	0	0	0	0	0	---	---	0.021	1980
1981	---	0.018	0.237	0.005	0.112	0.010	0.001	0.002	0.001	0.001	---	---	0.047	1981
1982	---	---	0.274	0.837	0.013	0.700	0.037	0.001	0	0.004	---	---	0.230	1982
1983	---	---	0.207	0.327	0.015	0.002	0.001	0	0	0	---	---	0.088	1983
1984	---	---	0.092	0.005	0.024	0	0	0	0	0	---	---	0.015	1984
1985	---	---	1.37	0.048	0	0.001	0.001	0	0	0	---	---	0.178	1985
1986	---	---	0.586	0.178	0.082	0.038	0.008	0	0	0	---	---	0.111	1986
1987	---	---	0	1.83	0.014	0.004	0	0.003	0	0	---	---	0.202	1987
1988	---	---	0.047	0.015	0	0	0	0	0	0	---	---	0.008	1988
MEAN	---	0.018	0.232	0.818	0.108	0.051	0.008	0.027	0.005	0	---	---	0.165	MEAN

LOCATION - LAT 49 07 28 N, LONG 98 56 28 W DRAINAGE AREA, 135 km^2, NATURAL FLOW

CRYSTAL CREEK NEAR CRYSTAL CITY - STATION NO. 05OB006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.72 B ON MAR 28	0B ON MAR 1 *	1 050	1959
1960	---	12.4 ON APR 11	0B ON MAR 1	5 380	1960
1961	---	2.32 ON MAR 27	0 ON MAR 1	2 610	1961
1962	28.7 AT 17:30 CST ON APR 17 *	18.2 ON APR 17	0B ON MAR 1	4 270	1962
1964	---	0.940R ON APR 6	0B ON MAR 1	853	1964
1965	---	3.43 ON MAY 6	0B ON MAR 1	905	1965
1966	---	4.70 ON MAR 30	0B ON MAR 1	3 510	1966
1967	---	1.06 ON APR 24	0B ON MAR 1	1 270	1967
1968	---	8.61 R ON AUG 24	0B ON MAR 1	3 000	1968
1969	---	18.7 ON APR 11	0B ON MAR 1	7 120	1969
1970	---	8.35 ON APR 25	0B ON MAR 1	6 780	1970
1971	---	6.46 B ON APR 12	0B ON MAR 1	4 670	1971
1972	---	3.77 B ON MAR 21	0B ON MAR 1	7 050	1972
1973	---	0.014B ON MAR 16	0B ON MAR 1	16.7	1973
1974	---	22.0 B ON APR 17 *	0B ON MAR 1	12 800	1974
1975	---	4.13 B ON APR 13	0B ON MAR 1	1 770	1975
1976	---	17.2 B ON APR 6	0B ON MAR 1	5 880	1976
1977	0.433 AT 11:28 CST ON MAY 20	0.386 ON MAY 20	0B ON MAR 1	80.3	1977
1978	9.48 AT 02:29 CST ON APR 6	7.22 ON APR 6	0B ON MAR 1	3 630	1978
1979	---	16.2 B ON APR 20	0B ON MAR 1	7 770	1979
1980	1.56 B AT 15:16 CST ON APR 4	1.23 B ON APR 6	0B ON MAR 1	441	1980
1981	6.77 AT 03:52 CST ON MAY 23	1.77 ON MAY 23	0 ON MAY 1	990	1981
1982	---	4.83 B ON MAR 31	0B ON MAR 1	4 860	1982
1983	1.91 B AT 09:13 CST ON APR 2	1.29 B ON APR 2	0B ON MAR 1	1 450	1983
1984	1.08 B AT 19:53 CST ON MAR 24	0.739B ON MAR 25	0B ON MAR 1	325	1984
1985	11.5 B AT 17:50 CST ON MAR 20	10.8 B ON MAR 20	0B ON MAR 1	3 800	1985
1986	10.5 B AT 16:16 CST ON MAR 22	4.04 B ON MAR 23	0B ON MAR 1	2 350	1986
1987	24.4 B AT 16:44 CST ON APR 5	13.3 B ON APR 5	0B ON MAR 1	4 270	1987
1988	0.541B AT 08:55 CST ON MAR 26	0.306B ON MAR 26	0 ON APR 25	184	1988
				3 500	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1986

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05OB010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.283	0.246	0.008	0.010	0.006	0.007	0.005	0	---	---	0.078	1959
1960	---	---	0	5.95	0.058	0.010	0	0	0	0	---	---	0.743	1960
1961	---	---	0.150	0.263	0.001	0	0	0	0	0	---	---	0.051	1961
1962	---	---	0	2.87	0.018	0.087	0.353	0.251	0	0	---	---	0.439	1962
1963	---	---	0.240	0.148	0.015	2.18	0.501	0.718	0	0	---	---	0.471	1963
1964	---	---	0	1.85	0.012	0.080	0.084	0.012	0.009	0.031	---	---	0.265	1964
1965	---	---	0	0.940	0.715	0.190	1.14	0.153	0.028	0	---	---	0.385	1965
1966	---	---	1.18	0.984	0.465	0.030	0	0	0	0	---	---	0.331	1966
1967	---	---	0.052	2.89	0.328	0.009	0	0	0	0	---	---	0.378	1967
1968	---	---	0.214	0.091	0.008	0.002	0.015	0.537	0.513	0	---	---	0.172	1968
1969	---	---	0	4.07	0.013	0.115	0.322	0	0	0	---	---	0.555	1969
1970	---	---	0	3.53	1.90	3.71	0.531	0.023	0	0	---	---	1.21	1970
1971	---	---	0	10.9	0.275	0.247	0	0	0	0	---	---	1.40	1971
1972	---	---	3.42	3.03	0.070	0.013	0.006	0.007	0	0	---	---	0.815	1972
1973	---	---	0.046	0.020	0.008	0.001	0	0	0	0	---	---	0.009	1973
1974	---	---	0	10.5	2.40	0.166	0.009	0.002	0.001	0.002	---	---	1.62	1974
1975	---	---	0	2.29	0.509	0.204	0.022	0	0.001	0.001	---	---	0.373	1975
1976	---	---	0	7.74	0.035	0.002	0	0	0	0	---	---	0.852	1976
1977	---	---	0.001	0.005	0.106	0.006	0	0	0	0	---	---	0.015	1977
1978	---	---	0.003	2.28	0.308	0.048	0.010	0	0	0	---	---	0.326	1978
1979	---	---	0	7.05	1.38	0.041	0.002	0	0	0	---	---	1.04	1979
1980	---	---	0.011	0.242	0.002	0.002	0.001	0	0	0.001	---	---	0.032	1980
1981	---	0.356	0.558	0.035	0.007	0.003	0	0.055	0.004	0.002	---	---	0.083	1981
1982	---	---	0.154	3.85	0.094	7.58	0.037	0.001	0	0.007	---	---	1.44	1982
1983	---	---	0.482	1.05	0.034	0.006	0	0	0	0	---	---	0.186	1983
1984	---	---	0.177	0.091	0.081	0.008	0	0	0	0	---	---	0.045	1984
1985	---	---	1.51	0.170	0	0.526	0.251	0.005	0	0	---	---	0.308	1985
1986	---	---	1.48	0.886	0.168	1.28	0.099	0.009	0.005	0.005	---	---	0.488	1986
1987	---	---	0.027	4.81	0.014	0	0	0.001	0.002	0	---	---	0.570	1987
1988	---	---	0.023	0.047	0.005	0	0	0	0	0	---	---	0.009	1988
MEAN	---	0.356	0.334	2.61	0.303	0.551	0.116	0.059	0.021	0.002	---	---	0.493	MEAN

LOCATION - LAT 48 05 21 N DRAINAGE AREA, 388 km^2
LONG 88 58 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976. THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OCCURRED IN FEB

CYPRESS CREEK NEAR CLEARWATER - STATION NO. 05DB010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.86 B ON MAR 31	OB ON MAR 1 *	1 640	1959
1960	---	25.5 E ON APR 8	OB ON MAR 1	15 700	1960
1961	---	1.12 B ON MAR 27	OB ON MAR 1	1 080	1961
1962	---	10.8 ON APR 17	OB ON MAR 1	8 280	1962
1963	---	12.4 ON JUN 10	OB ON MAR 1	9 870	1963
1964	---	9.32 B ON APR 10	OB ON MAR 1	5 390	1964
1965	---	10.4 ON MAY 5	OB ON MAR 1	8 370	1965
1966	---	6.12 B ON MAR 31	OB ON MAR 1	7 000	1966
1967	---	12.4 ON APR 21	OB ON MAR 1	6 010	1967
1968	---	6.08 ON AUG 24	OB ON MAR 1	3 840	1968
1969	---	16.2 ON APR 15	OB ON MAR 1	11 800	1969
1970	---	16.3 ON JUN 12	OB ON MAR 1	25 800	1970
1971	---	72.5 B ON APR 11 *	OB ON MAR 1	29 700	1971
1972	---	7.98 B ON MAR 21	OB ON MAR 1	17 300	1972
1973	---	0.161 ON MAR 23	OB ON MAR 1	182	1973
1974	---	68.8 ON APR 18	OB ON MAR 1	34 200	1974
1975	---	11.4 ON APR 15	OB ON MAR 1	7 880	1975
1976	---	53.0 B ON APR 5	OB ON MAR 1	20 200	1976
1977	---	0.868 ON MAY 25	OB ON MAR 1	314	1977
1978	---	11.9 B ON APR 7	OB ON MAR 1	5 800	1978
1979	---	36.8 B ON APR 22	OB ON MAR 1	22 100	1979
1980	---	0.8738 ON APR 7	OB ON MAR 1	872	1980
1981	---	2.37 B ON MAR 14	0 ON JUN 29	1 770	1981
1982	---	56.4 ON JUN 6	OB ON MAR 1	30 500	1982
1983	4.18 B AT 11:46 CST ON APR 2	3.13 B ON APR 2	OB ON MAR 1	4 180	1983
1984	1.03 AT 08:20 CST ON MAR 30	0.8578 ON MAR 28	OB ON MAR 1	853	1984
1985	11.7 AT 20:30 CST ON MAR 20	9.82 A ON MAR 20	OB ON MAR 1	5 520	1985
1986	10.1 B AT 03:15 CST ON MAR 25	8.37 B ON MAR 25	OB ON MAR 1	10 300	1986
1987	38.2 B AT 01:33 CST ON APR 6 *	30.6 B ON APR 6	OB ON MAR 1	12 000	1987
1988	0.194 AT 13:06 CST ON APR 4	0.188 ON APR 4	OB ON MAR 1	197	1988
				10 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

CYPRESS CREEK NEAR SARLES - STATION NO. 05DB031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	0	0	0	0	0	0	0	---	1961
1962	0	0	0	1.21	0.031	0.043	0.428	0.003	0	0	0	0	0.143	1962
1963	0	0	0.030	0.023	0.001	1.33	0.725	0.467	0.001	0	0	0	0.215	1963
1964	0	0	0	0.673	0.008	0.045	0.002	0	0	0	0	0	0.080	1964
1965	0	0	0	0.540	0.083	0.025	0.861	0.105	0.018	0.008	0	0	0.138	1965
1966	0	0	0.853	0.345	0.240	0.001	0	0	0	0	0	0	0.121	1966
1967	0	0	0.387	1.28	0.222	0	0	0	0	0	0	0	0.155	1967
1968	0	0	0.103	0.014	0	0	0	0.225	0.337	0.011	0.001	0	0.057	1968
1969	0	0	0	4.33	0.019	0.002	0.005	0	0	0	0	0	0.358	1969
1970	0	0	0	2.38	0.338	3.32	0.016	0	0	0	0	0	0.489	1970
1971	0	0	0	3.38	0.013	0	0.025	0	0	0	0	0	0.282	1971
1972	0	0	1.17	0.469	0.011	0	0	0	0	0	0	0	0.138	1972
1973	0	0	0.072	0.001	0	0	0	0	0	0	0	0	0.006	1973
1974	0	0	0	4.83	1.21	0.025	0	0	0	0	0	0	0.502	1974
1975	0	0	0	0.967	0.113	0.288	0.045	0	0	0	0	0	0.117	1975
1976	0	0	0	2.48	0.008	0	0	0.001	0	0	0	0	0.205	1976
1977	0	0	0	0.002	0.239	0.005	0	0	0	0	0	0	0.021	1977
1978	0	0	0	1.30	0.134	0.010	0.010	0	0	0	0	0	0.120	1978
1979	0	0	0	3.01	0.337	0.012	0	0	0	0	0	0	0.277	1979
1980	0	0	0	0.241	0.001	0.005	0.004	0.001	0	0	0	0	0.021	1980
1981	0	0.133	0.133	0.018	0.014	0	0	0	0	0	0	0	0.024	1981
1982	0	0	0.141	1.19	0.020	1.53	0.003	0.001	0	0.084	0.005	0.010	0.244	1982
1983	0	0	0.356	1.11	0.019	0.001	0.008	0	0	0	0	0	0.124	1983
1984	0	0	0.112	0.032	0.022	0.001	0	0	0	0	0	0	0.014	1984
1985	0	0	1.39	0.033	0	0.527	0.220	0.002	0	0.001	0	0	0.183	1985
1986	0	0	0.786	0.368	0.080	0.445	0.058	0	0	0	0	0	0.144	1986
1987	0	0	0	1.88	0.001	0	0	0.030	0.005	0	0	0	0.185	1987
1988	0	0	0.046	0.033	0	0	0	0	0	0	0	0	0.007	1988
MEAN	0	0.005	0.206	1.19	0.115	0.272	0.086	0.030	0.013	0.003	0	0	0.181	MEAN

LOCATION - LAT 48 58 35 N, LONG 96 57 05 W
DRAINAGE AREA, 149 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

REMARKS - PUBLISHED AS "LONG RIVER" PRIOR TO 1976

CYPRESS CREEK NEAR SARLES - STATION NO. 05080031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	0 ON MAY 19 *	---	1981
1982	11.1 AT 04:30 CST ON JUL 8	7.83 ON JUL 8	0 ON JAN 1	4 500	1982
1983	18.2 AT 21:00 CST ON JUN 2	11.4 ON JUN 4	0 ON JAN 1	8 770	1983
1984	5.35 B ON APR 10	2.83 B ON APR 10	0 ON JAN 1	1 890	1984
1985	10.2 AT 19:00 CST ON JUL 23	6.77 ON JUL 23	0 ON JAN 1	4 290	1985
1986	19.0 B AT 16:30 CST ON MAR 17	7.08 B ON MAR 17	0B ON JAN 1	3 820	1986
1987	8.78 B AT 17:40 CST ON APR 21	7.36 B ON APR 21	0B ON JAN 1	4 880	1987
1988	2.78 AT 01:00 CST ON AUG 25	2.18 ON AUG 25	0 ON JAN 1	1 820	1988
1989	32.0 B AT 07:00 CST ON APR 12	31.1 B ON APR 12	0B ON JAN 1	11 300	1989
1970	49.3 AT 08:30 CST ON JUN 11	44.2 ON JUN 11 *	0 ON JAN 1	15 800	1970
1971	54.4 AT 00:00 CST ON APR 11	33.1 ON APR 11	0 ON JAN 1	8 880	1971
1972	6.84 B AT 13:00 CST ON MAR 19	5.26 B ON MAR 19	0B ON JAN 1	4 350	1972
1973	---	0.680 ON MAR 13	0 ON JAN 1	198	1973
1974	35.7 AT 22:00 CST ON APR 17	29.2 ON APR 18	0 ON JAN 1	15 800	1974
1975	11.0 AT 12:00 CST ON APR 13	5.86 ON APR 12	0 ON JAN 1	3 710	1975
1976	18.4 B AT 00:30 CST ON APR 4	17.6 B ON APR 5	0B ON JAN 1	8 480	1976
1977	1.42 AT 19:00 CST ON MAY 20	1.27 ON MAY 21	0B ON JAN 1	857	1977
1978	9.03 AT 08:00 CST ON APR 7	8.72 ON APR 7	0B ON JAN 1	3 770	1978
1979	56.8 B ON APR 21 *	22.7 B ON APR 21	0B ON JAN 1	8 730	1979
1980	2.41 AT 11:00 CST ON APR 5	1.70 ON APR 5	0B ON JAN 1	855	1980
1981	0.8748 AT 04:30 CST ON FEB 24	0.6808 ON FEB 27	0B ON JAN 1	768	1981
1982	---	21.7 ON JUN 8	0B ON JAN 1	7 700	1982
1983	4.18 B AT 20:45 CST ON APR 2	3.40 B ON APR 3	0B ON JAN 1	3 900	1983
1984	1.08 AT 07:30 CST ON MAR 28	0.785 ON MAR 28	0 ON JAN 1	443	1984
1985	13.3 B AT 08:00 CST ON MAR 13	9.34 B ON MAR 13	0 ON JAN 1	5 780	1985
1986	---	3.60 B ON MAR 24	0 ON JAN 1	4 550	1986
1987	17.2 B AT 14:00 CST ON APR 5	13.9 B ON APR 5	0 ON JAN 1	5 210	1987
1988	0.176 AT 18:30 CST ON MAR 29	0.170 ON MAR 30	0 ON JAN 1	208	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 070	MEAN

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	0.885	0.187	0.340	0.079	0.428	0.130	0.038	---	---	---	1957
1958	---	---	0.514	0.801	0.208	0.038	0.077	0.019	0.013	0.018	---	---	0.210	1958
1959	---	---	0.540	3.34	0.510	0.138	0.038	0.032	0.038	0.524	---	---	0.638	1959
1960	---	---	0.073	6.88	0.584	0.132	0.088	0	0	0	---	---	0.959	1960
MEAN	---	---	0.376	3.03	0.387	0.162	0.085	0.119	0.045	0.145	---	---	0.802	MEAN

LOCATION - LAT 49 33 00 N DRAINAGE AREA, 402 km^2
LONG 99 04 30 W NATURAL FLOW

CYPRESS RIVER AT CYPRESS RIVER - STATION NO. 05MH002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	3.088 ON MAR 30	0B ON MAR 1 *	4 450	1958
1959	---	14.4 B ON APR 5	0B ON MAR 1	13 500	1959
1960	---	17.7 ON APR 17 *	0B ON MAR 1	20 300	1960
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 800	MEAN

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	4.02	0.158	0.071	0.042	0.013	0.316	0.124	---	---	0.583	1965
1966	---	---	0.637	4.27	1.42	0.078	0.521	0.002	0	0	---	---	0.696	1966
1967	---	---	0.868	4.84	0.714	0.027	0.027	0	0	0	---	---	0.702	1967
1968	---	---	0.848	0.588	0.284	0.057	0.114	1.45	1.04	0.099	---	---	0.581	1968
1969	---	---	0	10.1	0.881	0.072	2.26	0.281	0.012	0.041	---	---	1.68	1969
1970	---	---	0	8.73	5.25	0.284	0.033	0	0	0	---	---	1.90	1970
1971	---	---	0	4.90	0.333	0.223	0.487	0.020	0.001	0.053	---	---	0.740	1971
1972	---	---	1.84	2.91	0.422	0.015	0	0.014	0	0	---	---	0.648	1972
1973	---	---	0.166	0.384	0.082	0.012	0.812	0.037	0.029	0.035	---	---	0.209	1973
1974	---	---	0	12.2	2.97	0.320	0.008	0	0	0	---	---	1.91	1974
1975	---	---	0	1.24	0.885	0.085	0.115	0	0	0.008	---	---	0.285	1975
1976	---	---	0.004	5.87	0.088	0.005	0	0	0	0	---	---	0.732	1976
1977	---	---	0	0.022	0.628	0.085	0	0	0.207	0.081	---	---	0.128	1977
1978	---	---	0.011	4.10	0.425	0.110	0.645	0.030	0	0	---	---	0.658	1978
1979	---	---	0	10.8	3.00	0.233	0.044	0	0	0	---	---	1.74	1979
1980	---	---	0	1.37	0.038	0	0	0.010	0.017	0.029	---	---	0.178	1980
1981	---	---	0.110	0.048	0.038	0.102	0.132	0.056	0.187	0.078	---	---	0.094	1981
1982	---	---	0.066	0.882	0.129	0.068	0.008	0	0	0.019	---	---	0.144	1982
1983	---	---	0.102	3.12	0.117	0.121	0.038	0	0	0	---	---	0.441	1983
1984	---	---	0.239	0.205	0.228	0.018	0	0	0	0.002	---	---	0.086	1984
1985	---	---	2.63	1.62	0.078	0.005	0.001	0.226	0.118	0.108	---	---	0.597	1985
1986	---	---	3.02	2.58	2.05	0.148	0.122	0.083	0.006	0.034	---	---	1.01	1986
1987	---	---	0.058	5.25	0.101	0.016	0	0.461	0.012	0.082	---	---	0.733	1987
1988	---	---	0.083	0.801	0.130	0.006	0	0	0	0	---	---	0.102	1988
MEAN	---	---	0.426	3.82	0.851	0.068	0.230	0.111	0.081	0.032	---	---	0.898	MEAN

LOCATION - LAT 49 26 45 N DRAINAGE AREA, 255 km²
LONG 98 54 25 W NATURAL FLOW

CYPRESS RIVER NEAR BRUXELLES - STATION NO. 05MH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	25.7 ON APR 13	0 B ON MAR 1 *	12 300	1965
1966	---	35.7 ON APR 1	0 B ON MAR 1	19 000	1966
1967	---	16.0 ON APR 21	0 B ON MAR 1	14 900	1967
1968	---	10.6 ON AUG 27	0 B ON MAR 1	11 900	1968
1969	---	72.5 ON APR 12	0 B ON MAR 1	35 600	1969
1970	---	43.0 ON APR 26	0 B ON MAR 1	40 100	1970
1971	---	26.2 B ON APR 10	0 B ON MAR 1	15 700	1971
1972	---	8.95 B ON MAR 20	0 B ON MAR 1	13 700	1972
1973	---	11.1 ON JUL 5	0 B ON MAR 1	4 420	1973
1974	---	73.9 ON APR 10 *	0 B ON MAR 1	40 500	1974
1975	4.80 AT 16:09 CST ON MAY 25	3.95 ON APR 16	0 B ON MAR 1	6 060	1975
1976	39.6 B AT 12:23 CST ON APR 6	28.7 B ON APR 7	0 ON JUN 2	15 900	1976
1977	4.46 AT 04:27 CST ON MAY 21	3.20 ON MAY 21	0 B ON MAR 1	2 560	1977
1978	---	17.6 B ON APR 8	0 B ON MAR 1	13 800	1978
1979	---	84.2 B ON APR 21	0 B ON MAR 1	36 500	1979
1980	9.72 AT 20:11 CST ON APR 7	7.65 ON APR 8	0 B ON MAR 1	3 560	1980
1981	1.05 AT 23:12 CST ON SEP 7	0.838 ON SEP 7	0.001 ON SEP 3	1 880	1981
1982	2.868 AT 20:00 CST ON APR 15	2.25 B ON APR 15	0 B ON MAR 1	3 840	1982
1983	9.418 AT 13:00 CST ON APR 6	7.81 B ON APR 9	0 B ON MAR 1	9 350	1983
1984	---	2.00 B ON MAR 24	0 B ON MAR 1	1 820	1984
1985	14.2 AT 12:56 CST ON MAR 26	11.6 B ON MAR 26	0 B ON MAR 1	12 600	1985
1986	21.7 B AT 19:41 CST ON MAR 28	19.7 B ON MAR 29	0 ON SEP 6	21 300	1986
1987	44.7 AT 10:45 CST ON APR 6 *	35.5 ON APR 8	0 ON JUN 15	15 500	1987
1988	3.088 AT 12:01 CST ON APR 5	2.15 ON APR 5	0 ON JUN 24	2 170	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 800	MEAN

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	2.84	2.88	0.708	0.030	0	0	0	0	---	---	0.802	1961
1962	---	---	0	5.84	0.666	1.22	0.116	3.01	0.585	0.036	---	---	1.43	1962
1963	---	---	1.41	1.31	0.217	0.604	0.063	0.022	0.001	0.026	---	---	0.454	1963
1964	---	---	0	2.36	0.488	0.198	0.051	0.008	0.008	0.015	---	---	0.387	1964
1975	---	---	0.001	2.18	1.53	0.242	0.133	0.010	0.023	0.018	---	---	0.513	1975
1976	---	---	0.007	11.6	0.437	0.123	0.026	0.012	0	0	---	---	1.50	1976
1977	---	---	0.028	0.117	0.881	0.128	0.116	0.078	0.868	0.188	---	---	0.298	1977
1978	---	---	0.258	5.86	0.546	0.205	1.18	0.107	0.012	0.013	---	---	1.01	1978
1979	---	---	0	13.5	4.88	0.557	0.104	0.008	0.008	0.015	---	---	2.35	1979
1980	---	---	0.002	1.59	0.106	0.006	0.004	0.059	0.008	0.024	---	---	0.221	1980
1981	---	---	0.306	0.136	0.057	0.062	0.181	0.117	0.185	0.100	---	---	0.149	1981
1982	---	---	0.174	1.48	0.283	0.161	0.272	0.010	0.001	0.033	---	---	0.301	1982
1983	---	---	0.918	5.87	0.422	0.150	0.080	0	0	0	---	---	0.918	1983
1984	---	---	0.307	0.473	0.256	0.077	0.003	0.001	0.001	0.008	---	---	0.153	1984
1985	---	---	4.36	2.80	0.208	0.039	0.008	0.247	0.147	0.127	---	---	1.00	1985
1986	---	---	4.51	4.08	3.01	0.186	0.323	0.278	0.018	0.056	---	---	1.56	1986
1987	---	---	0.726	7.44	0.247	0.037	0.022	0.752	0.086	0.083	---	---	1.16	1987
1988	---	---	0.315	1.03	0.202	0.043	0.020	0	0	0.002	---	---	0.189	1988
MEAN	---	---	0.898	3.93	0.868	0.227	0.151	0.262	0.107	0.042	---	---	0.800	MEAN

LOCATION - LAT 49 35 31 N DRAINAGE AREA, 289 km²
LONG 99 02 00 W NATURAL FLOW

CYPRESS RIVER NEAR CYPRESS RIVER - STATION NO. 05MH004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	22.1 B ON MAR 27	0 B ON MAR 1 *	17 000	1961
1962	---	28.8 ON APR 21	0 B ON MAR 1	30 300	1962
1963	---	5.048 ON MAR 27	0 B ON MAR 1	9 600	1963
1964	---	4.288 ON APR 13	0 B ON MAR 1	8 190	1964
1975	---	4.86 ON APR 29	0.0018 ON MAR 1	10 800	1975
1976	---	58.1 ON APR 8	0 ON AUG 4	31 700	1976
1977	---	4.19 ON MAY 22	0.0018 ON MAR 1	6 270	1977
1978	---	18.1 ON APR 9	0 B ON MAR 1	21 400	1978
1979	---	84.7 B ON APR 22 *	0 B ON MAR 1	48 800	1979
1980	---	5.958 ON APR 9	0 ON JUN 14	4 880	1980
1981	2.21 AT 00:45 CST ON AUG 24	1.13 ON AUG 24	0.001 ON AUG 22	3 180	1981
1982	5.23 AT 04:58 CST ON JUL 17	3.38 ON JUL 17	0 B ON MAR 1	6 360	1982
1983	18.4 B AT 14:16 CST ON MAR 31	18.0 B ON MAR 31	0 B ON MAR 1	18 400	1983
1984	2.278 AT 22:38 CST ON APR 1	2.248 ON MAR 25	0 B ON MAR 1	3 230	1984
1985	22.8 B AT 07:45 CST ON MAR 27	21.1 B ON MAR 28	0 B ON MAR 1	21 300	1985
1986	24.6 B AT 08:27 CST ON MAR 30	23.6 B ON MAR 30	0.010 ON SEP 13	33 000	1986
1987	38.3 AT 00:05 CST ON APR 7 *	35.2 ON APR 7	0.002 ON JUL 5	24 500	1987
1988	3.738 AT 11:22 CST ON APR 6	3.188 ON APR 6	0 ON JUL 3	4 220	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 800	MEAN

DAUPHIN RIVER NEAR DAUPHIN RIVER - STATION NO. 05LM005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	4.09	1.48	2.11	30.3	29.6	26.7	115	112	52.5	58.3	70.0	66.9	47.7	1977
1978	71.0	74.2	94.9	129	109	88.2	64.4	39.4	30.2	26.1	22.2	12.3	61.7	1978
1979	12.7	16.4	22.8	72.1	265	313	312	272	200	151	135	84.0	155	1979
1980	82.0	112	129	144	107	53.2	30.6	27.8	46.6	63.2	62.4	42.6	74.9	1980
1981	36.7	38.2	44.5	54.3	40.5	28.2	15.6	15.0	15.5	19.5	22.0	19.4	29.0	1981
1982	5.81	0.659	3.08	36.8	56.7	34.3	25.2	15.0	12.3	14.2	16.2	7.71	19.2	1982
1983	8.80	4.44	5.73	19.8	51.8	99.8	121	126	86.6	65.1	60.4	18.7	56.0	1983
1984	18.4	23.0	27.8	74.8	84.8	52.0	82.8	112	70.6	51.8	40.2	32.5	55.2	1984
1985	32.5	40.4	60.0	137	122	110	101	70.5	58.0	84.2	80.9	54.8	78.1	1985
1986	58.5	64.5	73.3	132	182	244	244	208	108	68.6	43.7	46.1	123	1986
1987	50.7	51.8	61.4	123	138	133	84.2	40.8	19.3	21.3	26.8	18.1	64.0	1987
1988	12.7	14.2	22.7	80.2	77.5	107	95.7	46.8	23.1	14.8	10.3	4.70	40.8	1988
MEAN	32.6	36.8	45.7	84.5	104	106	108	90.3	60.8	51.4	46.7	34.0	66.8	MEAN

LOCATION - LAT 52 00 00 N DRAINAGE AREA, 82 600 km^2
LONG 98 19 20 W REGULATED SINCE 1976

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "DAUPHIN RIVER NEAR ANAMA BAY"

DAUPHIN RIVER NEAR DAUPHIN RIVER - STATION NO. 05LM005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	153 AT 04:07 CST ON AUG 4	151 ON AUG 4	1.02 B ON MAR 9	1 500 000	1977
1978	156 AT 03:00 CST ON APR 26	149 ON APR 25	10.0 B ON DEC 11	1 940 000	1978
1979	---	320 E ON JUN 12 *	11.3 B ON JAN 18	4 880 000	1979
1980	---	152 B ON APR 6	15.0 E ON AUG 16	2 370 000	1980
1981	---	57.3E ON APR 15	9.87 E ON SEP 22	815 000	1981
1982	88.1 AT 15:12 CST ON APR 24	84.2 ON APR 29	0.3208 ON FEB 14 *	806 000	1982
1983	148 AT 12:50 CST ON JUN 29	137 ON JUN 19	3.63 B ON FEB 20	1 760 000	1983
1984	125 AT 06:16 CST ON AUG 12	123 ON AUG 12	16.6 B ON JAN 25	1 740 000	1984
1985	159 AT 07:16 CST ON APR 8	157 B ON APR 6	30.6 B ON JAN 5	2 400 000	1985
1986	256 AT 08:36 CST ON JUN 25 *	254 ON JUN 25	35.6 B ON NOV 8	3 890 000	1986
1987	156 B AT 17:16 CST ON APR 6	149 ON MAY 12	11.6 ON OCT 10	2 020 000	1987
1988	118 AT 13:10 CST ON JUN 17	116 ON JUN 17	2.13 B ON DEC 31	1 290 000	1988
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 110 000	MEAN

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF055

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0.078	0.052	0.165	3.23	2.29	0.086	0.010	0.002	0.012	0.028	0.123	0.105	0.514	1986
1987	0.042	0.018	0.188	1.28	0.112	0.053	0.017	0.011	0.001	0.003	0.010	0.015	0.144	1987
1988	0.002	0.002	0.002	0.215	0.088	0.006	0.052	0	0.017	0.004	0.031	0.018	0.037	1988
MEAN	0.041	0.024	0.118	1.58	0.830	0.048	0.030	0.004	0.010	0.012	0.055	0.046	0.232	MEAN

LOCATION - LAT 50 15 04 N
LONG 95 53 10 W
NATURAL FLOW

DATA CONTRIBUTED BY -
ATOMIC ENERGY OF CANADA

DEAD CREEK NEAR LEE RIVER NORTH OF PINAWA - STATION NO. 05PF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1986	12.0	ON APR 30 *	11.8	ON APR 30 *	0 E	ON AUG 25 *	15 200	1986
1987	---		3.83	ON APR 11	0.001E	ON SEP 8	4 550	1987
1988	---		0.462	ON APR 8	0	ON JUL 25	1 180	1988
				* - EXTREME RECORDED FOR THE PERIOD OF RECORD			7 310	MEAN

E - ESTIMATED

DEAD HORSE CREEK NEAR ROSENFELD - STATION NO. 05DC016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	1.52	0.663	0.305	0.029	0.025	2.12	1.77	0.085	---	---	0.813	1968
1969	---	---	0	14.3	0.408	0.582	1.50	0.026	0	0.008	---	---	2.07	1969
1970	---	---	0	16.2	4.78	4.82	2.13	0.280	0.006	0.027	---	---	3.46	1970
1971	---	---	0	21.9	0.185	0.311	0.077	0.006	0	0.006	---	---	2.76	1971
1972	---	---	1.64	3.58	0.233	0.047	0		0	0	---	---	0.689	1972
1973	---	---	0.573	0.026	0.002	0.152	0.001	0	0.274	0.034	---	---	0.133	1973
1974	---	---	0	47.8	15.4	0.353	0.007	0	0	0	---	---	7.88	1974
1975	---	---	0	2.26	0.508	0.234	0.188	0.001	0	0	---	---	0.391	1975
1976	---	---	0	10.1	0.033	0.167	0.008	E.003	0.008	0	---	---	1.27	1976
1977	---	---	0.038	0.286	0.022	0.089	0.015	0	0.136	0.070	---	---	0.082	1977
1978	---	---	0.033	2.52	0.509	0.783	0.213	E	0.048	0	---	---	0.508	1978
1979	---	---	0	38.4	4.31	0.748	0.287	0.007	0.037	0.188	---	---	5.52	1979
1980	---	---	0	1.29	0.482	0.052	0.039	0.043	0.041	0.008	---	---	0.242	1980
1981	---	---	0.415	0.036	0.289	0.125	0.002	0	0	0	---	---	0.109	1981
1982	---	---	1.14	8.31	0.071	3.81	0.130	0.028	0	0.211	---	---	1.40	1982
1983	---	---	1.39	9.80	0.082	0.205	0.091	0	0	0	---	---	1.40	1983
1984	---	---	0.276	0.381	0.015	0.132	0	0	0	0	---	---	0.100	1984
1985	---	---	4.05	0.286	0.008	0.131	0.022	0.537	0.083	E.223	---	---	0.869	1985
1986	---	---	4.22	1.38	2.17	0.088	0.181	0.587	0	E	---	---	1.08	1986
1987	---	---	0.249	11.5	0.075	0.161	0.063	0.002	0.009	E.014	---	---	1.47	1987
1988	---	---	0.086	0.585	0.035	0.020	0.013	0	0	E.002	---	---	0.089	1988
MEAN	---	---	0.739	8.07	1.47	0.597	0.235	0.174	0.114	E.041	---	---	1.53	MEAN

LOCATION - LAT 49 15 10 N DRAINAGE AREA, 913 km^2
LONG 97 33 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "HESPELER FLOODWAY NEAR ROSENFELD"

DEAD HORSE CREEK NEAR ROSENFELD - STATION NO. 05DC016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1968	---		17.8 B	ON MAR 27	0B	ON MAR 1 *	17 200	1968
1969	---		81.8	ON APR 11	0B	ON MAR 1	43 800	1969
1970	---		88.8	ON APR 28	0B	ON MAR 1	73 300	1970
1971	---		182 B	ON APR 11	0B	ON MAR 1	58 400	1971
1972	---		9.868	ON APR 15	0B	ON MAR 1	14 200	1972
1973	---		8.29	ON SEP 24	0B	ON MAR 1	2 820	1973
1974	---		254	ON APR 17	0B	ON MAR 1	169 000	1974
1975	---		9.158	ON APR 17	0B	ON MAR 1	8 280	1975
1976	---		55.8 B	ON APR 8	0B	ON MAR 1	28 900	1976
1977	---		1.278	ON APR 9	0B	ON MAR 1	1 740	1977
1978	---		10.5 B	ON APR 9	0B	ON MAR 1	10 700	1978
1979	---		286	ON APR 20 *	0B	ON MAR 1	117 000	1979
1980	14.4	AT 12:27 CST ON MAY 29	9.09	ON MAY 29	0B	ON MAR 1	5 110	1980
1981	2.77	AT 01:55 CST ON MAY 26	2.23	ON MAY 26	0	ON APR 27	2 310	1981
1982	---		32.8 B	ON APR 13	0B	ON MAR 1	29 700	1982
1983	62.0 B	AT 11:00 CST ON APR 7	53.4 B	ON APR 7	0B	ON MAR 1	29 800	1983
1984	---		2.418	ON MAR 28	0B	ON MAR 1	2 110	1984
1985	---		30.1 B	ON MAR 19	0B	ON MAR 1	14 200	1985
1986	---		28.3 B	ON MAR 28	0B	ON MAR 1	23 000	1986
1987	135	AT 23:30 CST ON APR 5 *	84.2 B	ON APR 5	0B	ON MAR 1	31 200	1987
1988	7.388	AT 00:36 CST ON APR 6	5.448	ON APR 3	0B	ON MAR 1	1 880	1988
							32 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	15.6	0.497	0	0	0	0	0	---	---	1.97	1974
1975	---	---	0	0.421	1.04	0.004	0	0	0.003	0.001	---	---	0.184	1975
1976	---	---	0	10.0	0.005	0	0	0	0	0	---	---	1.23	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.114	0	0	0	0	0	0	---	---	0.014	1978
1979	---	---	0	20.8	1.89	0.013	0	0	0	0	---	---	2.78	1979
1980	---	---	0	0.002	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.370	0	0	0	0	0	0	---	---	0.048	1982
1983	---	---	0	5.72	0.015	0	0	0	0	0	---	---	0.825	1983
1984	---	---	0.001	0.001	0.130	0	0	0	0	0	---	---	0.017	1984
1985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
MEAN	---	---	0	4.49	0.298	0.001	0	0	0	0	---	---	0.887	MEAN

LOCATION - LAT 50 10 59 N DRAINAGE AREA, 3.37 km²
LONG 98 56 55 W NATURAL FLOW

DEAD LAKE DRAIN NEAR GLADSTONE - STATION NO. 05LL023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	138 ON APR 18	0B ON MAR 1 *	41 800	1974
1975	---	12.8 ON MAY 1	0B ON MAR 1	3 880	1975
1976	---	55.2 B ON APR 7	0B ON MAR 1	28 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	---	1.28 B ON APR 11	0B ON MAR 1	295	1978
1979	---	181 B ON APR 23 *	0B ON MAR 1	58 400	1979
1980	---	0.0108 ON APR 7	0B ON MAR 1	5.13	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	---	4.88 B ON APR 16	0B ON MAR 1	959	1982
1983	80.5 AT 23:48 CST ON APR 22 *	52.3 ON APR 23	0B ON MAR 1	17 400	1983
1984	0.263 AT 02:31 CST ON MAY 13	0.255 ON MAY 13	0B ON MAR 1	353	1984
1985	---	0 B ON MAR 1	0B ON MAR 1	0	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 400	MEAN

DEADHORSE CREEK AT MORDEN - STATION NO. 05DC015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	1.40	1.63	1.25	0.041	0.066	0.005	0.003	0.002	---	---	0.572	1966
1967	---	---	0.334	1.88	0.482	0.060	0	0.001	B	0	---	---	0.363	1967
1968	---	---	0.215	0.063	0.065	0	0.001	1.14	0.373	0.029	---	---	0.236	1968
1969	---	---	B	4.05	0.074	0.949	0.437	0.007	0	0	---	---	0.676	1969
1970	---	---	0	5.40	0.868	0.242	0.200	0.033	0.008	0.006	---	---	0.831	1970
1971	---	---	0	4.45	0.060	0.133	0.014	0.011	0.007	0.020	---	---	0.575	1971
1978	---	---	0.004	0.841	0.317	0.207	0.015	0.006	0.052	0	---	---	0.180	1978
1979	---	---	0	4.27	1.12	0.214	0.110	0	0	0	---	---	0.705	1979
1980	---	---	0	0.131	0	3	0	0	0.083	0.006	---	---	0.027	1980
1981	---	0.001	0.003	0.004	0.112	0.020	0	0.109	0.001	0.017	---	---	0.034	1981
1982	---	---	0.041	0.333	0.035	0.189	0.044	0.001	0.078	0.025	---	---	0.080	1982
1983	---	---	0.110	1.10	0.036	0.005	0.001	0	0	0	---	---	0.153	1983
1984	---	---	0.003	0.004	0.005	0.004	0	0	0	0.029	---	---	0.005	1984
1985	---	---	0.524	0.087	0.012	0.003	0.005	0.009	0.005	0.006	---	---	0.159	1985
1986	---	---	1.43	0.899	0.773	0.010	0.005	0.001	0	0	---	---	0.366	1986
1987	---	---	0.044	0.883	0.015	0	0.015	0.005	0.002	0.001	---	---	0.130	1987
1988	---	---	0.002	0.004	0.001	0	0	0	0	0	---	---	0.001	1988
MEAN	---	0.001	0.242	1.56	0.307	0.121	0.053	0.113	0.036	0.008	---	---	0.300	MEAN

LOCATION - LAT 49 11 47 N DRAINAGE AREA, 142 km²
LONG 98 08 38 W REGULATED

DEADHORSE CREEK AT MORDEN - STATION NO. 05DC015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	14.2 B ON MAR 31	00 ON MAR 1 *	12 100	1966
1967	---	26.9 ON APR 20	00 ON MAR 1	7 480	1967
1968	---	14.0 ON AUG 25	00 ON MAR 1	5 000	1968
1969	---	41.3 B ON APR 9	00 ON MAR 1	14 300	1969
1970	---	41.8 ON APR 28 *	00 ON MAR 1	17 800	1970
1971	---	38.8 ON APR 11	00 ON MAR 1	12 100	1971
1978	---	3.51 ON APR 10	00 ON MAR 1	4 030	1978
1979	---	33.8 B ON APR 19	00 ON MAR 1	15 000	1979
1980	---	0.8828 ON APR 7	00 ON MAR 1	578	1980
1981	0.880 AT 15:48 CST ON MAY 25	0.788 ON MAY 25	00 ON MAR 1	711	1981
1982	1.42 AT 00:55 CST ON SEP 26	1.16 ON SEP 26	00 ON MAR 1	1 900	1982
1983	8.50 AT 22:24 CST ON APR 5	8.53 ON APR 5	00 ON MAR 1	3 240	1983
1984	0.435 AT 23:00 CST ON OCT 15	0.409 ON OCT 15	00 ON MAR 1	120	1984
1985	18.0 AT 10:33 CST ON AUG 17	11.2 ON AUG 17	00 ON MAR 1	3 350	1985
1986	26.6 B AT 01:24 CST ON MAR 23 *	11.9 B ON MAR 23	00 ON MAR 1	7 740	1986
1987	11.2 B AT 12:19 CST ON APR 5	7.61 B ON APR 6	00 ON MAR 1	2 760	1987
1988	0.0469 AT 13:53 CST ON APR 1	0.0198 ON MAR 31	00 ON MAR 1	16.7	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 350	MEAN

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05DC023

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	0.826	1.10	0.202	0.007	0.019	0.001	0	0.001	---	---	0.268	1972
1973	---	---	0.010	0.006	0.007	0.003	0.001	0	0	0.001	---	---	0.004	1973
1974	--- *	---	0	4.77	3.14	0.241	0.001	0	0	0	---	---	1.01	1974
1975	---	---	0	0.469	0.343	0.579	0.088	0.023	0.024	0.085	---	---	0.193	1975
1976	---	---	0.009	2.02	0.034	0.017	0.002	0	0	0	---	---	0.255	1976
MEAN	---	---	0.169	1.67	0.745	0.169	0.018	0.005	0.005	0.013	---	---	0.348	MEAN

LOCATION - LAT 49 13 00 N, LONG 98 05 30 W
DRAINAGE AREA, 149 km^2
REGULATED

DEADHORSE CREEK NEAR MORDEN - STATION NO. 05DC023

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	5.15 B ON MAR 19	00 ON MAR 1 *	5 670	1972
1973	---	0.0678 ON MAR 13	00 ON MAR 1	74.2	1973
1974	---	37.4 ON MAY 21 *	00 ON MAR 1	21 400	1974
1975	1.84 AT 03:39 CST ON JUN 23	1.67 ON APR 28	00 ON MAR 1	4 080	1975
1976	22.5 B AT 08:00 CST ON APR 5 *	15.5 B ON APR 5	00 ON MAR 1	5 410	1976
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 330	MEAN

DEER RIVER NORTH OF BELCHER - STATION NO. 09FD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	0.805	0.552	0.506	0.480	22.4	19.8	16.7	38.4	36.0	9.04	1.87	1.75	12.7	1978
1979	1.46	1.07	0.808	0.712	27.4	58.9	22.1	11.0	13.2	19.6	7.04	2.53	13.9	1979
1980	0.893	0.605	0.506	14.6	---	---	19.8	---	25.5	18.6	5.65	2.18	---	1980
1981	1.23	0.851	0.671	0.619	56.3	29.8	18.6	12.2	10.8	26.3	9.67	1.97	14.4	1981
1982	0.787	0.459	0.187	0.015	---	84.3	20.7	5.83	7.67	12.4	5.32	2.80	---	1982
1983	1.71	1.31	1.07	0.859	3.23	184	18.2	22.2	79.0	30.1	10.3	4.32	27.9	1983
1984	2.75	1.37	0.780	18.0	78.5	46.8	8.48	2.88	2.69	4.84	1.86	0.955	14.3	1984
1985	0.611	0.355	0.236	0.402	57.2	33.7	8.55	3.49	4.70	8.69	2.02	0.819	11.1	1985
1986	0.498	0.394	0.377	0.388	84.2	82.4	80.4	33.5	16.8	7.83	2.71	1.30	22.8	1986
1987	0.988	0.781	0.884	---	---	24.1	9.32	---	---	---	5.10	2.28	---	1987
1988	0.898	0.580	0.444	0.435	---	46.8	9.44	19.3	8.71	5.35	1.74	0.782	---	1988
MEAN	1.13	0.765	0.588	3.84	48.8	55.1	19.5	16.8	20.7	14.5	4.85	1.96	16.7	MEAN

LOCATION - LAT 58 00 54 N, LONG 94 11 44 W
DRAINAGE AREA, 1 880 km^2
NATURAL FLOW

DEER RIVER NORTH OF BELCHER - STATION NO. 05FD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	81.6 AT 12:45 CST ON AUG 22	81.0 ON AUG 21	0.4538 ON APR 8	399 000	1978
1979	---	129 B ON MAY 27	0.8778 ON APR 12	437 000	1979
1980	---	---	0.4678 ON APR 9	---	1980
1981	---	205 B ON MAY 23	0.3918 ON MAY 11	458 000	1981
1982	---	---	0.0088 ON APR 11 *	---	1982
1983	---	324 B ON JUN 8 *	0.8838 ON MAY 20	578 000	1983
1984	209 AT 01:00 CST ON MAY 22 *	205 ON MAY 21	0.5748 ON APR 8	451 000	1984
1985	---	89.8E ON MAY 16	0.1008 ON APR 21	349 000	1985
1986	---	283 B ON MAY 18	0.3738 ON MAR 4	718 000	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		527 000	MEAN

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0.076	7.21	0.569	0.322	0.199	0.043	0.149	0.220	---	---	1.08	1971
1972	---	---	0.014	3.49	0.177	0.090	0.042	0.048	0.025	0.084	---	---	0.485	1972
1973	---	---	1.23	0.248	0.074	3.42	0.273	0.084	0.310	0.594	---	---	0.772	1973
1974	---	---	0.023	10.1	5.55	0.437	0.079	0.062	0.089	0.081	---	---	2.03	1974
1975	---	---	0.018	2.83	0.383	2.47	0.519	0.103	0.052	0.075	---	---	0.787	1975
1976	---	---	0	4.02	0.185	1.07	0.107	0.043	0.044	0.030	---	---	0.872	1976
1977	---	---	0.088	0.411	0.072	0.084	0.108	0.083	1.37	0.324	---	---	0.314	1977
1978	---	---	0	5.58	0.590	0.384	0.704	0.087	0.053	0.084	---	---	1.07	1978
1979	---	---	0	7.82	2.14	1.26	0.100	0.056	0.128	0.056	---	---	1.43	1979
1980	---	---	0	2.80	0.103	0.036	0.025	0.024	0.033	0.032	---	---	0.387	1980
1981	---	---	0.288	0.078	0.088	0.048	0.031	0.030	0.021	0.099	---	---	0.084	1981
1982	---	---	0.204	1.78	0.087	0.114	0.107	0.024	0.027	0.116	---	---	0.301	1982
1983	---	---	0.398	3.47	0.130	0.179	0.188	0.030	0.043	0.026	---	---	0.647	1983
1984	---	---	0.230	0.478	0.083	0.473	0.106	0.031	0.034	0.157	---	---	0.193	1984
1985	---	---	1.33	1.03	0.288	0.073	0.145	0.733	0.506	0.467	---	---	0.573	1985
1986	---	---	1.85	3.80	1.48	0.182	0.093	0.085	0.056	0.074	---	---	0.854	1986
1987	---	---	0.021	3.78	0.086	0.048	0.506	1.88	0.148	0.084	---	---	0.790	1987
1988	---	---	0.080	0.825	0.081	0.040	0.044	---	---	0.031	---	---	---	1988
MEAN	---	---	0.324	3.36	0.693	0.598	0.186	0.186	0.180	0.145	---	---	0.732	MEAN

LOCATION - LAT 50 11 40 N DRAINAGE AREA, 249 km^2
LONG 95 42 50 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1979

DEVILS CREEK NEAR LIBAU - STATION NO. 05OJ016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	33.8 AT 21:30 CST ON APR 10 *	28.2 ON APR 10	0.012 ON AUG 11	22 900	1971
1972	---	15.5 ON APR 15	0 B ON MAR 1 *	10 300	1972
1973	---	34.6 ON JUN 20	0 B ON MAR 1	18 300	1973
1974	---	56.3 ON APR 21 *	0.0178 ON MAR 1	42 800	1974
1975	19.9 AT 02:30 CST ON JUN 23	17.0 ON JUN 23	0.0188 ON MAR 1	18 200	1975
1976	---	17.0 B ON APR 5	0 B ON MAR 1	14 200	1976
1977	---	10.5 ON SEP 8	0 B ON MAR 1	6 550	1977
1978	17.8 AT 22:17 CST ON APR 15	15.7 ON APR 17	0 B ON MAR 1	22 700	1978
1979	---	47.8 B ON APR 18	0 B ON MAR 1	30 200	1979
1980	---	10.7 B ON APR 10	0 B ON MAR 1	8 150	1980
1981	0.445 AT 13:00 CST ON MAR 13	0.4458 ON MAR 13	0.005 ON AUG 26	1 750	1981
1982	9.89 B AT 22:22 CST ON APR 14	7.05 B ON APR 14	0 B ON MAR 1	6 360	1982
1983	19.0 B AT 19:23 CST ON APR 5	13.2 B ON APR 5	0 B ON MAR 1	11 800	1983
1984	2.17 AT 22:28 CST ON JUN 21	1.84 B ON MAR 29	0 B ON MAR 1	4 090	1984
1985	8.58 B AT 02:06 CST ON MAR 26	8.58 B ON MAR 26	0 B ON MAR 1	12 100	1985
1986	---	17.7 B ON MAR 29	0 B ON MAR 1	20 200	1986
1987	---	27.6 B ON APR 5	0 B ON MAR 1	16 700	1987
1988	---	8.00 B ON APR 4	0 B ON MAR 1	---	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 800	MEAN

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	5.11	0.548	0.009	0.001	0.005	0.010	0.024	---	---	0.700	1967
1968	---	---	0.583	0.847	0.444	0.301	0.326	2.33	0.847	0.298	---	---	0.720	1968
1969	---	---	0	5.43	0.744	0.178	0.025	0.008	0.057	0.182	---	---	0.812	1969
1970	---	---	0	3.97	1.18	0.784	0.183	0.138	0.722	0.286	---	---	0.895	1970
MEAN	---	---	0.141	3.88	0.729	0.317	0.129	0.617	0.334	0.198	---	---	0.782	MEAN

LOCATION - LAT 50 13 30 N DRAINAGE AREA, 281 km²
LONG 98 43 30 W NATURAL FLOW

REMARKS - PUBLISHED AS "DEVIL CREEK" PRIOR TO 1970

DEVILS CREEK NEAR SEMPLE - STATION NO. 05OJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	15.2 ON APR 15	0B ON MAR 1 *	16 800	1967
1968	---	16.3 ON AUG 25	0B ON MAR 1	15 200	1968
1969	---	23.7B ON APR 10 *	0B ON MAR 1	17 200	1969
1970	---	12.1B ON APR 17	0B ON MAR 1	19 000	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 800	MEAN

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OGO09

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.138	0.017	0.068	0.027	0.021	0.003	0	0	---	---	0.034	1981
1982	---	---	0.081	0.384	0	0	0	0	0	0.005	---	---	0.058	1982
1983	---	---	0.210	1.78	0	0.001	0	0	0	0	---	---	0.248	1983
1984	---	---	0.024	0.159	0.017	0.030	0.010	0	0	0	---	---	0.030	1984
1985	---	---	1.01	0.198	0	0	0	0.009	0.074	0.103	---	---	0.175	1985
1986	---	---	0.388	0.845	0.157	0.008	0.069	0.003	0	0	---	---	0.155	1986
1987	---	---	0.089	1.88	0	0	0.002	0.001	0	0	---	---	0.238	1987
MEAN	---	---	0.273	0.724	0.035	0.009	0.012	0.002	0.011	0.015	---	---	0.134	MEAN

LOCATION - LAT 49 39 32 N DRAINAGE AREA, 67.9 km²
LONG 97 17 20 W NATURAL FLOW

DOMAIN DRAIN NEAR DOMAIN - STATION NO. 05OGO09

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1981	0.648 AT 12:06 CST ON MAY 23	0.434 ON MAY 24	0B ON MAR 1 *	728	1981
1982	3.82 AT 16:56 CST ON APR 14	2.87 ON APR 15	0B ON MAR 1	1 230	1982
1983	11.4 AT 01:06 CST ON APR 7	10.2 ON APR 8	0B ON MAR 1	5 200	1983
1984	---	0.757B ON APR 3	0B ON MAR 1	625	1984
1985	7.79 B AT 20:41 CST ON MAR 25	6.52 B ON MAR 25	0B ON MAR 1	3 720	1985
1986	6.42 AT 00:00 CST ON APR 3	3.83 ON APR 2	0B ON MAR 1	3 290	1986
1987	15.7 AT 22:17 CST ON APR 6 *	12.0 ON APR 7 *	0B ON MAR 1	5 050	1987
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 630	MEAN

DRAINAGE DITCH NEAR LISAU - STATION NO. 05OJO13

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0	0.278	0.011	0	0	0	0	0	---	---	0.035	1967
1969	---	---	0	0.371	0.034	0.013	0.002	0	0	0	---	---	0.052	1969
1970	---	---	0	0.548	0.023	0.001	0	0	0	0	---	---	0.070	1970
1971	---	---	0	0.705	0.014	0.598	0.003	0	0	0	---	---	0.088	1971
1972	---	---	0	0.285	0.002	0	0	0	0	0	---	---	0.038	1972
1973	---	---	0.082	0.007	0	0.127	0	0	0	0	---	---	0.027	1973
1975	---	---	0	0.383	0.003	0.181	0.001	0	0	0	---	---	0.065	1975
1976	---	---	0	0.329	0.001	0.378	0.001	0	0	0	---	---	0.067	1976
1977	---	---	0	0.078	0.010	0.013	0.003	0	0.253	0.003	---	---	0.044	1977
MEAN	---	---	0.008	0.329	0.011	0.078	0.001	0	0.028	0	---	---	0.056	MEAN

LOCATION - LAT 50 13 50 N DRAINAGE AREA, 13.5 km²
LONG 98 43 30 W NATURAL FLOW

DRAINAGE DITCH NEAR LISAU - STATION NO. 05OJ013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	1.06 ON APR 15	0B ON MAR 1 *	750	1967
1969	---	3.43 ON APR 10	0 ON MAR 1	1 090	1969
1970	---	2.838 ON APR 17	0B ON MAR 1	1 480	1970
1971	---	5.668 ON APR 10	0B ON MAR 1	1 800	1971
1972	---	3.37 ON APR 15	0B ON MAR 1	745	1972
1973	---	1.53 ON JUN 20	0 ON MAR 1	566	1973
1975	---	6.268 ON APR 15 *	0B ON MAR 1	1 370	1975
1976	---	2.858 ON APR 8	0B ON MAR 1	1 830	1976
1977	---	2.13 ON SEP 10	0B ON MAR 1	939	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 190	MEAN

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.15	2.85	1.78	1.88	0.078	0.545	0.887	0.292	---	---	1954
1955	---	---	---	3.45	2.25	0.784	0.058	0	0.003	0.001	0.001	---	---	1955
1956	---	---	0.048	1.51	5.77	0.889	0.310	0.013	0.070	0.096	0.212	---	1.06	1956
1957	---	---	0.087	3.85	0.936	0.155	0.027	0	0	0	---	---	0.800	1957
1958	---	---	0.104	0.340	0.060	0.034	0.005	0	0	0	---	---	0.067	1958
1959	---	---	0.466	0.544	0.288	0.880	0.340	0	0	0.015	---	---	0.315	1959
1960	---	---	0	3.83	1.40	0.848	0.014	0	0	0	---	---	0.880	1960
1961	---	---	0.003	0.075	0.037	0	0	0	0	0	---	---	0.014	1961
1962	---	---	0	0.798	0.083	0.072	0.029	0.001	0	0	---	---	0.121	1962
1963	---	---	0.184	0.490	0.383	0.354	0.188	0.001	0	0	---	---	0.188	1963
1964	---	---	0	0.278	0.125	0.024	0	0	0	0	---	---	0.053	1964
1965	---	---	0	0.744	0.352	0.278	0.308	0.277	0.851	0.441	---	---	0.379	1965
1966	---	---	0.344	3.35	0.889	0.532	0.289	0.072	0.084	0.007	---	---	0.898	1966
1967	---	---	0.008	4.33	1.87	0.101	0.008	0	0	0	---	---	0.784	1967
1968	---	---	0.128	0.327	0.048	0.026	0	0	0	0	---	---	0.066	1968
1969	---	---	0	1.74	0.181	0.081	0.483	0.188	0.006	0.078	---	---	0.339	1969
1970	---	---	0.026	4.49	2.76	0.848	0.363	0.129	0	0.008	---	---	1.07	1970
1971	---	---	0.003	2.84	0.321	0.869	0.034	0	0	0	---	---	0.488	1971
1972	---	---	0.238	2.43	0.831	0.047	0	0	0	0	---	---	0.461	1972
1973	---	---	0.048	0.082	0.015	0.185	0.016	0.002	0.023	0.093	---	---	0.055	1973
1974	---	---	0	4.80	4.40	0.808	0	0	0	0	---	---	1.22	1974
1975	---	---	0	3.84	1.78	1.80	0.087	0	0.332	0.309	---	---	0.834	1975
1976	---	---	0.006	3.84	0.408	4.87	0.218	0	0	0	---	---	1.17	1976
1977	---	---	0	0.018	0.029	0.014	0.263	0.005	0.021	0.022	---	---	0.045	1977
MEAN	---	---	0.077	2.10	1.18	0.774	0.203	0.031	0.071	0.072	0.188	---	0.492	MEAN

LOCATION - LAT 51 19 10 N LONG 100 22 00 W DRAINAGE AREA, 252 km^2 NATURAL FLOW

DRIFTING RIVER NEAR ASHVILLE - STATION NO. 05LJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON APR 17	0B ON APR 1 *	---	1954
1955	---	8.33 B ON APR 4	0 ON JUL 17	---	1955
1956	---	12.2 ON MAY 9	0 ON AUG 7	22 800	1956
1957	---	8.95 ON APR 26	0B ON MAR 1	12 700	1957
1958	---	1.53 ON APR 2	0B ON MAR 1	1 420	1958
1959	---	3.77 ON JUN 29	0B ON MAR 1	6 690	1959
1960	---	12.7 ON APR 13	0B ON MAR 1	14 600	1960
1961	---	0.1618 ON APR 14	0B ON MAR 1	303	1961
1962	---	6.08 B ON APR 20	0B ON MAR 1	2 550	1962
1963	---	1.53 ON APR 10	0B ON MAR 1	4 160	1963
1964	---	0.8168 ON APR 19	0B ON MAR 1	1 120	1964
1965	---	2.58 ON APR 13	0B ON MAR 1	6 030	1965
1966	---	24.1 ON APR 2	0 ON JUL 29	14 700	1966
1967	---	25.7 B ON APR 27 *	0 ON JUL 10	16 600	1967
1968	---	0.8718 ON MAR 28	0B ON MAR 1	1 390	1968
1969	---	11.9 B ON APR 13	0B ON MAR 1	7 170	1969
1970	---	20.7 ON APR 25	0 ON AUG 15	22 600	1970
1971	---	15.9 B ON APR 11	0 ON JUL 22	10 600	1971
1972	---	6.37 B ON APR 16	0B ON MAR 1	9 540	1972
1973	---	0.818 ON JUN 21	0B ON MAR 1	1 160	1973
1974	---	26.6 B ON APR 19	0B ON MAR 1	25 600	1974
1975	---	10.4 B ON APR 20	0B ON MAR 1	18 600	1975
1976	---	25.4 ON JUN 14	0 ON JUL 28	24 600	1976
1977	---	2.42 ON JUL 16	0B ON MAR 1	981	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 400	MEAN

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	0.874	0.256	0.191	0.194	0.124	0.107	0.178	---	---	---	1961
1962	---	---	---	1.88	0.378	0.352	0.236	0.216	0.120	0.284	---	---	---	1962
1963	---	---	0.861	6.86	0.990	3.87	0.537	0.529	0.506	0.376	---	---	3.06	1963
1964	---	---	0.173	1.82	1.02	0.535	0.454	0.418	0.323	0.428	---	---	0.907	1964
1965	---	---	0.057	3.28	1.05	0.892	0.695	0.383	0.251	0.278	---	---	1.34	1965
1966	---	---	0.145	2.13	1.38	0.385	0.355	0.211	0.183	0.211	---	---	1.01	1966
1967	---	---	0.074	4.05	0.817	0.346	0.296	0.237	0.152	0.197	---	---	1.33	1967
1968	---	---	0.504	1.71	0.758	0.559	0.586	0.382	0.524	0.278	---	---	0.882	1968
1969	---	---	0.110	3.88	0.457	0.482	0.291	0.897	0.419	0.500	---	---	1.16	1969
1970	---	---	0.133	4.36	1.22	0.506	0.394	0.255	0.183	0.184	---	---	1.54	1970
1971	---	---	0.088	2.24	0.240	0.244	0.256	0.169	0.117	0.138	---	---	0.688	1971
1972	---	---	0.088	4.89	0.848	0.244	0.231	0.224	0.188	0.137	---	---	1.38	1972
1973	---	---	0.552	0.388	0.285	0.486	---	---	---	---	---	---	0.420	1973
1974	---	---	0.207	14.7	3.07	0.907	---	---	---	---	---	---	5.19	1974
1975	---	---	0.145	2.88	0.812	0.424	---	---	---	---	---	---	0.950	1975
1976	---	---	0.230	17.9	0.768	0.442	---	---	---	---	---	---	4.76	1976
1977	---	---	0.148	0.447	0.297	0.406	---	---	---	---	---	---	0.322	1977
1978	---	---	0.054	5.77	0.830	0.480	---	---	---	---	---	---	1.96	1978
1979	---	---	0.097	13.0	4.23	1.01	---	---	---	---	---	---	4.55	1979
1980	---	---	0.084	2.83	0.314	0.214	---	---	---	---	---	---	0.852	1980
1981	---	---	0.656	0.614	0.361	0.817	---	---	---	---	---	---	0.611	1981
1982	---	---	0.184	3.81	0.672	0.476	---	---	---	---	---	---	1.28	1982
1983	---	---	0.174	5.67	1.68	0.800	---	---	---	---	---	---	2.33	1983
1984	---	---	0.231	0.803	0.340	4.44	---	---	---	---	---	---	1.43	1984
1985	---	---	1.20	3.61	0.443	0.525	---	---	---	---	---	---	1.43	1985
1986	---	---	1.70	8.01	3.80	0.595	---	---	---	---	---	---	3.54	1986
1987	---	---	0.145	4.26	0.391	0.299	---	---	---	---	---	---	1.25	1987
1988	---	---	0.100	1.70	0.592	0.500	---	---	---	---	---	---	0.689	1988
MEAN	---	---	0.298	4.49	1.20	0.766	0.377	0.333	0.283	0.286	---	---	1.78	MEAN

LOCATION - LAT 51 13 00 N DRAINAGE AREA, 397 km²
LONG 97 32 00 W NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

EAST FISHER RIVER NEAR HODGSON - STATION NO. 05SD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.69 ON APR 21	---	---	1961
1962	---	13.0 B ON APR 21	---	---	1962
1963	---	38.6 ON APR 9	0 B ON MAR 1 *	32 300	1963
1964	---	9.128 ON APR 16	0.1478 ON MAR 2	8 580	1964
1965	---	17.1 ON APR 14	0.0408 ON MAR 1	14 100	1965
1966	---	12.1 B ON APR 4	0.1308 ON MAR 1	10 800	1966
1967	---	16.7 ON APR 16	0.0748 ON MAR 1	14 100	1967
1968	---	5.218 ON APR 9	0.1198 ON MAR 1	8 300	1968
1969	---	23.0 ON APR 12	0.1108 ON MAR 1	12 300	1969
1970	---	15.0 B ON APR 19	0.1338 ON MAR 1	15 200	1970
1971	---	11.6 ON APR 19	0.0688 ON MAR 1	7 280	1971
1972	---	28.9 ON APR 16	0.0888 ON MAR 1	14 500	1972
1973	---	1.758 ON MAR 25	0.0858 ON MAR 1	4 430	1973
1974	---	84.8 ON APR 20	0.2078 ON MAR 1	85 200	1974
1975	---	9.978 ON APR 19	0.1428 ON MAR 1	10 000	1975
1976	---	61.2 B ON APR 7	0.2128 ON MAR 25	50 100	1976
1977	---	2.10 ON MAY 30	0.071 ON MAY 13	3 400	1977
1978	---	27.6 ON APR 16	0 B ON MAR 1	20 700	1978
1979	---	70.8 ON APR 23 *	0.0828 ON MAR 1	47 900	1979
1980	---	9.618 ON APR 11	0.0618 ON MAR 30	8 980	1980
1981	3.20 AT 23:07 CST ON JUN 19	2.98 ON JUN 19	0 ON JUN 30	5 380	1981
1982	---	25.7 E ON APR 15	0.0908 ON MAR 25	13 100	1982
1983	26.2 B AT 06:15 CST ON APR 8	26.1 B ON APR 8	0.017 ON APR 16	24 600	1983
1984	---	33.6 ON JUN 23	0.0308 ON MAR 19	15 100	1984
1985	12.0 B AT 08:27 CST ON APR 3	11.5 A ON APR 3	0.1208 ON MAR 24	15 100	1985
1986	34.3 AT 20:40 CST ON APR 1 *	33.8 B ON APR 1	0.0158 ON MAR 1	37 300	1986
1987	28.8 AT 22:34 CST ON APR 8	28.1 ON APR 7	0.0698 ON MAR 3	13 200	1987
1988	8.868 AT 05:23 CST ON APR 4	8.478 ON APR 4	0.0538 ON MAR 1	7 050	1988
				18 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	---	---	0.230	0.024	0.032	0.015	0.015	0.024	0.019	0.014	---	1964
1965	0.012	0.011	0.014	0.124	0.813	0.210	0.088	0.072	0.387	0.093	0.053	0.033	0.145	1965
1966	0.015	0.014	0.023	0.338	0.754	0.239	0.048	0.040	0.024	0.029	0.033	0.024	0.132	1966
1967	0.024	0.021	0.022	0.058	0.588	0.094	0.027	0.025	0.015	0.022	0.024	0.014	0.079	1967
1968	0.013	0.012	0.027	0.123	0.244	0.185	0.132	0.088	0.054	0.044	0.031	0.025	0.081	1968
1969	0.022	0.017	0.008	0.414	0.252	0.574	0.227	0.037	0.075	0.084	0.058	0.038	0.150	1969
1970	0.026	0.035	0.034	0.089	0.620	0.316	0.188	0.044	0.139	0.233	0.106	0.038	0.188	1970
1971	0.012	0.006	0.022	0.607	0.140	0.584	0.124	0.048	0.026	0.134	0.074	0.051	0.180	1971
1972	0.045	0.029	0.035	0.476	0.432	0.048	0.024	0.018	0.015	0.028	0.084	0.029	0.103	1972
1973	0.037	0.041	0.040	0.051	0.091	0.250	0.033	0.029	0.415	0.314	0.211	0.088	0.131	1973
1974	0.024	0.023	0.027	0.782	1.34	0.105	0.042	0.027	0.029	0.031	0.031	0.031	0.208	1974
1975	0.013	0.008	0.011	0.120	0.473	0.238	0.042	0.094	1.44	0.214	0.100	0.059	0.233	1975
1976	0.051	0.042	0.036	0.768	0.134	0.343	0.081	0.035	0.018	0.024	0.023	0.022	0.130	1976
1977	0.019	0.023	0.037	0.075	0.073	0.034	0.392	0.059	0.415	0.101	0.063	0.036	0.111	1977
1978	0.032	0.021	0.024	0.373	0.118	0.084	0.066	0.028	0.075	0.122	0.032	0.018	0.082	1978
1979	0.023	0.016	0.024	0.238	1.03	0.153	0.037	0.028	0.030	0.036	0.033	0.029	0.140	1979
1980	B.027	0.023	B.019	B.103	0.037	0.018	B.026	0.102	B.084	B.070	0.031	0.014	B.048	1980
1981	0.014	0.021	B.287	B.318	0.276	0.349	0.041	0.037	B.033	B.045	0.028	0.008	B.120	1981
1982	B	0	B.003	0.222	0.282	0.098	B.027	0.031	B.023	0.337	0.152	0.030	0.101	1982
MEAN	0.022	0.020	0.037	0.293	0.406	0.212	0.068	0.045	0.175	0.105	0.061	0.030	0.126	MEAN

LOCATION - LAT 50 59 03 N
LONG 100 03 35 W
DRAINAGE AREA, 14.8 km²
NATURAL FLOW

EASTERN TRIBUTARY TO EDWARDS CREEK - STATION NO. 05LJ032

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	---	---	1964
1965	---	2.22 ON MAY 7	0.011B ON JAN 11	4 560	1965
1966	---	2.64 ON MAY 18	0.014B ON JAN 10	4 170	1966
1967	---	1.36 B ON MAY 15	0.008B ON DEC 26	2 490	1967
1968	---	0.854 ON MAY 6	0.008B ON JAN 1	2 560	1968
1969	---	4.86 E ON JUN 27	0.005B ON MAR 11	4 720	1969
1970	---	1.75 B ON MAY 6	0.023B ON DEC 29	4 930	1970
1971	---	5.86 E ON JUN 6	0.007B ON FEB 10	5 040	1971
1972	---	1.61 ON APR 26	0 ON SEP 2 *	3 270	1972
1973	---	5.61 ON SEP 4	0 ON JUL 21	4 140	1973
1974	---	4.13 ON APR 27	0.020B ON DEC 31	6 590	1974
1975	38.6 AT 05:16 CST ON SEP 19 *	28.9 ON SEP 19 *	0.009B ON FEB 4	7 370	1975
1976	---	2.89 ON APR 14	0.012 ON MAY 30	4 110	1976
1977	---	6.20 E ON JUL 11	0.014B ON JAN 7	3 500	1977
1978	---	2.09 A ON APR 26	0.015B ON DEC 7	2 570	1978
1978	---	3.78 A ON MAY 17	0.013B ON FEB 27	4 430	1978
1980	0.988 AT 11:02 CST ON AUG 4	0.529A ON SEP 4	0.014B ON DEC 8	1 460	1980
1981	4.86 AT 12:08 CST ON JUN 15	2.30 ON JUN 15	0 B ON DEC 19	3 760	1981
1982	---	1.85 ON OCT 29	0 B ON JAN 1	3 190	1982
				4 060	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	---	---	---	---	---	---	---	---	0.151	---	1962
1963	0.070	0.146	0.139	1.09	0.446	0.594	0.113	0.053	0.084	0.089	0.106	0.160	0.264	1963
1964	0.127	0.118	0.130	0.828	0.552	0.081	---	---	---	---	---	---	---	1964
MEAN	0.099	0.132	0.130	0.858	0.500	0.338	0.113	0.053	0.084	0.089	0.106	0.151	0.264	MEAN

LOCATION - LAT 51 01 21 N
LONG 100 04 54 W
DRAINAGE AREA, 51.5 km²
REGULATED

EDWARDS CREEK ABOVE DAUPHIN RESERVOIRS - STATION NO. 05LJ029

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	3.88B ON APR 6 *	0 ON JAN 18 *	8 020	1963
1964	---	---	---	---	1964
				8 020	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.103	2.15	0.099	0.037	0.078	0.488	0.400	0.274	---	---	0.447	1980
1981	---	---	0.128	0.833	1.52	1.82	0.240	0.233	0.042	0.118	---	---	0.613	1981
1982	---	---	0.060	4.06	1.83	0.285	0.084	0.041	0.008	0.088	---	---	0.675	1982
1983	---	---	0	5.87	2.78	1.28	0.756	0.031	0.034	0.081	---	---	1.34	1983
1984	---	---	0.178	0.803	2.30	0.903	0.085	0	0.007	0.024	---	---	0.573	1984
1985	---	---	1.81	5.77	0.724	1.22	0.138	1.56	1.21	2.58	---	---	1.85	1985
1986	---	---	2.50	4.49	9.11	0.328	0.124	0.084	0.072	0.157	---	---	2.13	1986
1987	---	---	0.755	2.68	0.172	0.036	0.024	0.017	0.108	0.144	---	---	0.609	1987
1988	---	---	0.165	2.31	5.11	0.172	0.011	0.008	0.032	0.011	---	---	0.678	1988
MEAN	---	---	0.632	3.22	2.61	0.677	0.185	0.286	0.212	0.528	---	---	1.03	MEAN

LOCATION - LAT 51 08 30 N
LONG 99 55 20 W
DRAINAGE AREA, 311 km²
REGULATED

EDWARDS CREEK DRAIN BELOW JACKFISH CREEK - STATION NO. 05LJ047

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.97B ON APR 6	0 ON MAY 22 *	9 450	1980
1981	12.6 AT 18:56 CST ON JUN 13	6.51 ON JUN 15	0 ON SEP 15	13 000	1981
1982	---	17.3 B ON APR 14	0B ON MAR 1	15 500	1982
1983	---	42.0 B ON APR 22	0B ON MAR 1	26 300	1983
1984	8.22 AT 15:10 CST ON JUN 23	6.50 ON MAY 12	0B ON MAR 1	12 100	1984
1985	24.7 B AT 09:56 CST ON APR 2	16.3 ON APR 30	0B ON MAR 1	38 200	1985
1986	111 AT 02:11 CST ON MAY 5 *	78.6 ON MAY 5 *	0B ON MAR 1	44 700	1986
1987	11.5 AT 22:02 CST ON APR 6	9.38 ON APR 6	0 ON JUN 15	10 800	1987
1988	58.0 AT 00:46 CST ON MAY 3	31.9 ON MAY 3	0B ON MAR 1	20 700	1988
				21 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.086	5.44	2.24	1.45	0.104	0.088	0.122	0.121	---	---	1.20	1957
1958	---	---	0.363	1.31	0.260	0.088	0.313	0.016	0.026	0.147	---	---	0.318	1958
1959	---	---	0.044	1.84	2.14	0.877	0.515	0.073	0.105	0.847	---	---	0.753	1959
1960	---	---	0.062	4.26	5.01	0.884	0.127	0.074	0.012	0.056	---	---	1.41	1960
1961	---	---	0.012	0.521	0.876	0.035	0.038	0	0	0.006	---	---	0.161	1961
1962	---	---	0.100	0.803	1.18	0.868	0.032	0.044	0.144	0.381	---	---	0.438	1962
1963	---	---	0.284	2.73	1.24	1.89	0.276	0.083	0.172	0.178	---	---	0.820	1963
1964	---	---	0	2.48	1.20	0.086	0.077	0.012	0.022	0.038	---	---	0.485	1964
1965	---	---	0.003	1.08	2.08	0.850	0.280	0.123	1.88	0.417	---	---	0.827	1965
1966	---	---	0.178	1.87	2.84	0.712	0.208	0.170	0.015	0.068	---	---	0.761	1966
1967	---	---	0	0.881	3.37	0.216	0.030	0.021	0	0.040	---	---	0.585	1967
1968	---	---	0.216	0.884	0.762	0.430	1.08	0.338	0.118	0.123	---	---	0.471	1968
1969	---	---	0.008	1.43	0.808	3.21	1.42	0.111	0.190	0.168	---	---	0.887	1969
1970	---	---	0.133	1.11	5.35	0.886	0.487	0.084	0.257	0.311	---	---	1.22	1970
1971	---	---	0.163	2.82	0.858	2.24	0.548	0.188	0.108	0.582	---	---	0.863	1971
1972	---	---	0.407	2.40	1.82	0.174	0.048	0.014	0.020	0.031	---	---	0.611	1972
1973	---	---	0.845	0.428	0.258	0.804	0.063	0.043	0.021	0.088	---	---	0.480	1973
1974	---	---	0	5.43	5.85	0.820	0.076	0.087	0.312	0.240	---	---	1.95	1974
1975	---	---	0.122	1.75	2.10	1.03	0.077	0.585	7.19	1.38	---	---	1.75	1975
1976	---	---	0.084	4.58	0.780	4.44	0.538	0.118	0.076	0.074	---	---	1.32	1976
1977	---	---	0.088	0.441	0.187	0.028	0.886	0.276	1.46	0.645	---	---	0.505	1977
1978	---	---	0.185	2.58	0.630	0.418	0.242	0.083	0.288	0.823	---	---	0.808	1978
1979	---	---	0.087	3.21	7.13	1.20	0.148	0.080	0.108	0.081	---	---	1.50	1979
1980	---	---	0.086	0.794	0.204	0.237	0.204	0.388	0.378	0.314	---	---	0.325	1980
MEAN	---	---	0.138	2.11	2.23	0.958	0.328	0.128	0.578	0.318	---	---	0.845	MEAN

LOCATION - LAT 51 07 30 N
LONG 100 02 30 W
DRAINAGE AREA, 142 km²
REGULATED

EDWARDS CREEK NEAR DAUPHIN - STATION NO. 05LJ022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	25.0 B AT 15:20 CST ON APR 24	25.0 B ON APR 24	0.0288 ON MAR 1	25 300	1957
1958	3.91 AT 06:00 CST ON JUL 8	2.848 ON APR 1	0 B ON MAR 1 *	6 700	1958
1959	7.93 AT 00:00 CST ON MAY 4	5.72 ON MAY 4	0 B ON MAR 1	15 900	1959
1960	41.9 AT 15:30 CST ON MAY 28	33.3 ON MAY 28	0 ON SEP 15	29 800	1960
1961	---	1.01A ON MAY 7	0 B ON MAR 1	3 400	1961
1962	---	4.36A ON MAY 30	0 B ON MAR 1	8 300	1962
1963	24.7 AT 21:00 CST ON JUN 18	7.80R ON APR 6	0 B ON MAR 1	17 400	1963
1964	---	5.33R ON APR 11	0 B ON MAR 1	10 300	1964
1965	---	7.48A ON MAY 7	0 B ON MAR 1	17 500	1965
1966	14.3 AT 01:00 CST ON MAY 5	9.57 ON MAY 5	0.005 ON SEP 23	16 500	1966
1967	---	5.57E ON MAY 16	0 B ON MAR 1	13 400	1967
1968	9.00 AT 21:35 CST ON JUL 1	5.55 ON JUL 2	0.018 ON AUG 14	9 950	1968
1969	75.5 AT 08:08 CST ON JUN 27	41.5 R ON JUN 27	0.001 ON SEP 15	18 600	1969
1970	35.5 AT 03:12 CST ON MAY 7	20.4 ON MAY 7	0.005 ON SEP 8	25 700	1970
1971	28.1 AT 15:15 CST ON JUN 6	17.3 ON JUN 6	0.018 ON AUG 28	15 300	1971
1972	9.37 AT 00:45 CST ON APR 21	7.36 ON APR 21	0 ON AUG 26	12 900	1972
1973	8.81 AT 20:00 CST ON OCT 3	8.81 ON OCT 3	0 ON JUL 23	10 200	1973
1974	36.5 B AT 12:15 CST ON APR 19	26.2 B ON APR 19	0 B ON MAR 1	41 300	1974
1975	114 AT 10:57 CST ON SEP 19 *	102 ON SEP 19 *	0 ON JUL 13	37 200	1975
1976	76.5 AT 22:00 CST ON JUN 13	33.5 ON JUN 14	0.013 ON OCT 27	27 900	1976
1977	23.0 AT 01:22 CST ON JUL 12	10.5 ON JUL 12	0.001 ON JUN 7	10 700	1977
1978	8.01 AT 20:47 CST ON APR 23	5.86 ON APR 23	0.013 ON AUG 5	12 800	1978
1979	44.7 AT 04:28 CST ON MAY 17	29.5 ON MAY 17	0.016 ON AUG 31	31 600	1979
1980	---	2.71B ON APR 4	0 E ON JUN 12	8 890	1980
				17 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.37	1.87	2.62	0.944	0.239	2.13	1.05	---	---	---	1954
1955	---	---	---	2.60	3.76	3.78	0.331	0.088	0.021	0.082	---	---	---	1955
1956	---	---	0.198	1.55	3.01	1.54	0.240	0.188	0.142	---	---	---	---	1956
MEAN	---	---	0.198	1.84	2.91	2.77	0.938	0.193	0.778	0.418	---	---	---	MEAN

LOCATION - LAT 51 08 35 N LONG 100 03 45 W DRAINAGE AREA, 138 km^2 NATURAL FLOW

EDWARDS CREEK NEAR DAUPHIN AIRPORT - STATION NO. 05LJ020

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	13.9 ON SEP 28	0.142B ON APR 1	---	1954
1955	---	21.0 ON JUN 15	0 ON SEP 4 *	---	1955
1956	---	36.2 ON JUN 19 *	0 ON JUL 14	---	1956
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	---	---	---	0.075	---	1982
1983	0.066	0.122	0.071	0.078	0.060	0.044	0.015	0.058	0.058	0.027	0.115	0.145	0.069	1983
1984	0.116	0.111	0.093	0.078	0.030	0.022	0.029	0.038	0.034	0.017	0.058	0.074	0.058	1984
1985	0.071	0.074	0.083	0.034	0.028	0.018	0.005	0.004	0.083	0.042	0.074	0.108	0.051	1985
1986	0.104	0.100	0.101	0.052	0.320	0.121	0.026	0.012	0.014	0.015	0.101	0.089	0.069	1986
1987	0.083	0.088	0.085	0.085	0.052	0.009	0.012	0.014	0.028	0.010	0.089	0.081	0.057	1987
1988	0.086	0.068	0.081	0.038	0.028	0.010	0.045	0.018	0.003	0.002	0.072	0.095	0.047	1988
1989	0.082	0.090	0.095	0.094	0.009	0.260	0.424	0.001	0.025	0.014	0.044	0.094	0.103	1989
1990	0.100	0.088	0.083	0.082	0.517	0.258	0.126	0.072	0.083	0.018	0.083	0.110	0.133	1990
1991	0.098	0.093	0.093	0.091	0.031	0.604	0.130	0.087	0.088	0.029	0.084	0.088	0.128	1991
1992	0.087	0.090	0.094	0.090	0.139	0.011	0.032	0.010	0.080	0.004	0.151	0.093	0.072	1992
1993	0.078	0.074	0.088	0.001	0.006	0.024	0.025	0.036	0.086	0.014	0.080	0.115	0.048	1993
1994	0.100	0.091	0.101	0.172	0.784	0.148	0.027	0.018	0.082	0.057	0.111	0.114	0.150	1994
1995	0.124	0.118	0.102	0.068	0.083	0.082	0.080	0.078	1.80	0.140	0.148	0.153	0.241	1995
1996	0.142	0.139	0.148	0.154	0.026	0.480	0.088	0.077	0.045	0.047	0.093	0.088	0.124	1996
MEAN	0.096	0.096	0.091	0.078	0.151	0.147	0.075	0.038	0.173	0.031	0.094	0.101	0.096	MEAN

LOCATION - LAT 50 55 30 N LONG 100 02 40 W DRAINAGE AREA, 11.7 km^2 REGULATED SINCE 1982

EDWARDS CREEK NEAR OUTLET OF EDWARDS LAKE - STATION NO. 05LJ030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	0.484E ON APR 17	0 E ON JUL 8 *	2 180	1963
1964	---	0.150 ON MAY 8	0 E ON MAY 21	1 830	1964
1965	---	0.224 ON APR 30	0 E ON JUN 24	1 800	1965
1966	---	0.868 ON MAY 31	0.003 ON APR 8	2 800	1966
1967	---	0.246 ON MAY 17	0 E ON JUN 8	1 800	1967
1968	---	0.235 ON JUL 3	0.881 ON SEP 30	1 480	1968
1969	---	2.81 ON JUN 30	0 ON AUG 9	3 240	1969
1970	---	1.84 ON MAY 20	0.008 ON OCT 19	4 180	1970
1971	---	1.12 ON JUN 14	0.004 ON OCT 17	3 870	1971
1972	---	0.241 ON MAY 17	0 ON JUL 5	3 270	1972
1973	---	0.227E ON SEP 5	0 ON APR 7	1 850	1973
1974	---	1.00 ON MAY 12	0.013E ON JUL 8	4 720	1974
1975	33.1 AT 12:00 CST ON SEP 19 *	23.8 ON SEP 19 *	0.001 ON AUG 24	7 880	1975
1976	---	3.94 ON JUN 15	0.002E ON JUN 4	3 820	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 080	MEAN

E - ESTIMATED

ELGIN CREEK NEAR SOURIS - STATION NO. 05MG012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.177	0.425	0.088	0	D	0	0	0	---	---	0.086	1961
1962	---	---	0	1.25	0.085	0.138	D.048	0.018	0.038	0	---	---	0.192	1962
1963	---	---	0.106	0.221	0.002	0.023	0	0	0	0	---	---	0.044	1963
1964	---	---	0	0.535	0.146	0.001	D	0	0	0	---	---	0.084	1964
1965	---	---	0	2.76	0.043	0.015	1.38	0.077	0.188	0.088	---	---	0.582	1965
1966	---	---	0.483	0.481	0.127	0.059	0.008	0	0	0	---	---	0.138	1966
1967	---	---	0.011	0.702	0.130	0	0	0	0	0	---	---	0.104	1967
1969	---	---	0	---	0.107	0.005	0.338	0.022	0.002	0	---	---	---	1969
1970	---	---	0	4.18	0.832	0.943	0.260	0.018	0	0	---	---	0.882	1970
1971	---	---	0.001	0.525	0.096	0.326	0.140	0	0	0	---	---	0.134	1971
1972	---	---	1.77	0.287	0.068	0.008	0.001	0.000	0.003	0	---	---	0.282	1972
1973	---	---	0	0	0	0.027	0.229	0.058	0.042	0.017	---	---	0.047	1973
1974	---	---	0	8.50	0.795	0.988	0	0	0	0	---	---	1.15	1974
1975	---	---	0	4.08	1.08	0.173	0.015	0.135	0.303	0.141	---	---	0.733	1975
1976	---	---	0.008	11.8	0.252	0.253	0.031	0	0	0	---	---	1.48	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.008	1.88	0.058	0.008	0	0	0	0	---	---	0.252	1978
1979	---	---	0	1.72	0.550	0.048	0	0	0	0	---	---	0.288	1979
1980	---	---	0	0.309	0.001	0	0	0.192	0.088	0.080	---	---	0.084	1980
1981	---	0.378	0.121	0.021	0.007	0.028	0.029	0	0.001	0.001	---	---	0.028	1981
1982	---	---	0.027	4.66	0.128	0.831	0	0	0	0	---	---	0.597	1982
1983	---	---	0.035	2.44	0.045	0.005	0	0	0	0	---	---	0.308	1983
1984	---	---	0.021	0.017	0.126	0.001	0	0	0	0	---	---	0.021	1984
1985	---	---	3.49	0.940	0.005	0	0	0	0.009	0.012	---	---	0.581	1985
1986	---	---	0.858	0.470	1.07	0.008	0.001	0.006	0	0	---	---	0.304	1986
1987	---	---	1.84	3.53	0.008	0	0	---	---	0	---	---	---	1987
1988	---	---	m	0.017	0.003	0	0.001	0	0	0	---	---	0.003	1988
MEAN	---	0.378	0.320	1.99	0.221	0.048	0.096	0.023	0.026	0.012	---	---	0.327	MEAN

LOCATION - LAT 49 35 28 N DRAINAGE AREA, 1 170 km^2
LONG 100 14 05 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.91 AND 0 m^3/s OCCURRED IN FEB

ELGIN CREEK NEAR SOURIS - STATION NO. 05MG012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	***	2.06 ON APR 5	00 ON MAR 1 *	1 810	1961
1962	***	5.51 ON APR 17	00 ON MAR 1	4 070	1962
1963	***	0.009 ON APR 7	00 ON MAR 1	324	1963
1964	***	2.53 ON APR 9	00 ON MAR 1	1 760	1964
1965	***	17.3 ON APR 11	00 ON MAR 1	11 900	1965
1966	***	3.71 B ON MAR 31	00 ON MAR 1	2 940	1966
1967	***	1.85 ON APR 14	00 ON MAR 1	2 200	1967
1968	***	***	***	***	1968
1970	***	18.0 ON APR 27	00 ON MAR 1	14 600	1970
1971	***	1.49 B ON APR 9	00 ON MAR 1	2 840	1971
1972	***	9.12 B ON MAR 17	00 ON MAR 1	5 870	1972
1973	***	1.78 ON JUL 27	00 ON MAR 1	888	1973
1974	***	36.5 B ON APR 19	00 ON MAR 1	24 300	1974
1975	***	25.3 ON APR 29	00 ON MAR 1	15 600	1975
1976	***	50.4 B ON APR 10 *	0 ON JUL 22	31 600	1976
1977	***	0.0018 ON MAR 14	00 ON MAR 1	0.00	1977
1978	***	8.04 B ON APR 4	00 ON MAR 1	5 330	1978
1979	***	16.7 B ON APR 22	00 ON MAR 1	9 050	1979
1980	***	2.75 B ON APR 6	00 ON MAR 1	1 780	1980
1981	***	0.3158 ON MAR 1	0 ON MAY 21	555	1981
1982	36.9 B AT 17:06 CST ON APR 13 *	35.0 B ON APR 14	00 ON MAR 1	12 600	1982
1983	9.40 AT 21:03 CST ON APR 5	8.57 B ON APR 4	00 ON MAR 1	8 550	1983
1984	0.484 AT 13:00 CST ON MAY 7	0.469 ON MAY 7	00 ON MAR 1	439	1984
1985	34.4 AT 18:46 CST ON MAR 24	22.0 B ON MAR 25	00 ON MAR 1	11 900	1985
1986	15.6 AT 13:23 CST ON MAY 6	10.5 ON MAY 5	00 ON MAR 1	6 440	1986
1987	24.4 B AT 21:36 CST ON APR 3	19.6 B ON APR 4	00 ON MAR 1	***	1987
1988	0.0788 AT 12:13 CST ON APR 6	0.0698 ON APR 6	00 ON MAR 1	64.3	1988
				9 920	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NEAR ELM CREEK - STATION NO. 05GG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	***	***	0	3.22	0.303	0.096	0	0	0	0	***	***	0.893	1960
1961	***	***	0.777	1.30	0.065	0	0	0	0	0	***	***	0.533	1961
1962	***	***	0	1.52	0.656	1.34	0.114	1.41	0.021	0.035	***	***	0.859	1962
1963	***	***	0.744	1.09	0.674	1.70	0.070	0	0	0	***	***	1.10	1963
1964	***	***	0	0.718	0.075	0.346	0	0	0	0	***	***	0.281	1964
1965	***	***	0	4.81	0.285	0.215	0	0	0	0	***	***	1.33	1965
1966	***	***	0	0.933	1.66	0.011	0.282	0.118	0.088	0	***	***	0.553	1966
1967	***	***	0	7.22	0.812	0	0	0	0	0	***	***	1.63	1967
1968	***	***	0.109	0.187	0.045	0.002	0.078	1.88	0.356	0.012	***	***	0.068	1968
1969	***	***	0	5.58	1.83	0.838	2.37	0.380	0.005	0	***	***	1.99	1969
1970	***	***	0	9.19	4.50	0.407	0.017	0	0.002	0	***	***	3.50	1970
1971	***	***	0	2.00	0.228	0.045	0.043	0.002	0	0.023	***	***	0.560	1971
1972	***	***	0.830	2.41	0.114	0	0	0.020	0	0	***	***	0.782	1972
1973	***	***	0.585	0.014	0.012	0.003	***	***	***	***	***	***	0.155	1973
1974	***	***	0	10.4	5.41	0.577	***	***	***	***	***	***	4.84	1974
1975	***	***	0	1.61	0.337	0.148	0.070	0.002	0.001	0	***	***	0.887	1975
1976	***	***	0	5.81	0.048	0.082	0	0	0	***	***	***	1.46	1976
1977	***	***	0	0.084	0.043	0.017	***	***	***	***	***	***	0.031	1977
1978	***	***	0.003	4.05	0.778	0.230	***	***	***	***	***	***	1.28	1978
1979	***	***	0	10.9	8.82	1.11	***	***	***	***	***	***	5.45	1979
1980	***	***	0	0.617	0	0	***	***	***	***	***	***	0.152	1980
1981	***	0.008	0.047	0.005	0	0	***	***	***	***	***	***	0.013	1981
1982	***	***	0.072	0.576	0	0	***	***	***	***	***	***	0.160	1982
1983	***	***	0.677	2.86	0.044	0.102	***	***	***	***	***	***	0.982	1983
1984	***	***	0.069	0.036	0.141	0.323	***	***	***	***	***	***	0.139	1984
1985	***	***	2.64	0.711	0.009	0	***	***	***	***	***	***	0.859	1985
1986	***	***	3.89	5.98	7.40	0.021	***	***	***	***	***	***	4.09	1986
1987	***	***	0	5.57	0.026	0.005	***	***	***	***	***	***	1.36	1987
1988	***	***	0.006	0.406	0.018	0	***	***	***	***	***	***	0.107	1988
MEAN	***	0.008	0.332	3.10	1.33	0.255	0.203	0.254	0.030	0.005	***	***	1.25	MEAN

LOCATION - LAT 49 48 42 N LONG 97 56 57 W DRAINAGE AREA, 874 km^2 REGULATED

REMARKS PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "ELM CREEK CHANNEL NO. 2 NEAR ELM CREEK"

ELM CREEK CHANNEL NEAR ELM CREEK - STATION NO. 05056005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	5.61 ON APR 11	00 ON MAR 1 *	9 430	1960
1961	---	5.35 B ON APR 1	00 ON MAR 1	5 812	1961
1962	---	19.3 B ON APR 20	00 ON MAR 1	9 180	1962
1963	---	10.7 ON JUN 4	00 ON MAR 1	11 508	1963
1964	---	4.39 ON APR 15	00 ON MAR 1	2 980	1964
1965	---	33.4 ON APR 13	00 ON MAR 1	14 100	1965
1966	---	13.6 ON MAY 5	00 ON MAR 1	6 880	1966
1967	---	25.1 ON APR 20	00 ON MAR 1	20 300	1967
1968	---	0.7068 ON MAR 28	00 ON MAR 1	802	1968
1969	---	20.6 ON APR 12	00 ON MAR 1	21 100	1969
1970	---	43.0 ON APR 25	00 ON MAR 1	27 000	1970
1971	---	13.4 ON APR 11	00 ON MAR 1	5 800	1971
1972	---	13.0 B ON APR 14	00 ON MAR 1	8 250	1972
1973	---	1.51 B ON MAR 22	00 ON MAR 1	1 650	1973
1974	---	47.0 B ON APR 17	00 ON MAR 1	51 000	1974
1975	---	8.89 B ON APR 14	00 ON MAR 1	5 980	1975
1976	---	38.6 B ON APR 6	00 ON MAR 1	15 400	1976
1977	---	0.2418 ON APR 9	00 ON MAR 1	228	1977
1978	---	19.2 B ON APR 10	00 ON MAR 1	13 200	1978
1979	---	82.1 A ON APR 23 *	00 ON MAR 1	57 500	1979
1980	---	2.30 B ON APR 10	00 ON MAR 1	1 800	1980
1981	---	0.0859 ON MAR 18	0 ON APR 10	140	1981
1982	3.82 AT 18:57 CST ON APR 14	2.66 B ON APR 13	00 ON MAR 1	1 880	1982
1983	17.8 B AT 02:15 CST ON APR 4	14.3 B ON APR 4	00 ON MAR 1	10 100	1983
1984	3.47 AT 02:45 CST ON JUN 22	2.68 ON JUN 22	00 ON MAR 1	1 470	1984
1985	---	18.1 B ON MAR 18	00 ON MAR 1	9 470	1985
1986	61.7 AT 11:45 CST ON MAY 6	38.8 ON MAY 6	00 ON MAR 1	43 100	1986
1987	69.4 A ON APR 6 *	45.7 A ON APR 7	00 ON MAR 1	14 500	1987
1988	---	4.85 B ON APR 2	00 ON MAR 1	1 130	1988
				13 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NEAR FANNYSTELLE - STATION NO. 05056004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.063	7.26	0.437	0.147	0.004	0	0	0	---	---	0.572	1960
1961	---	---	0.976	3.09	0.187	0	0	0	0	0	---	---	0.516	1961
1962	---	---	0	2.61	1.80	2.20	0.176	3.49	0.034	0	---	---	1.26	1962
1964	---	---	0	2.07	0.081	0.549	0.022	0.005	0.012	0	---	---	0.337	1964
1965	---	---	0	8.78	0.884	0.235	0	0	0	0	---	---	1.31	1965
1966	---	---	0.026	4.01	2.57	0	0.314	0.249	0.380	0	---	---	0.937	1966
1967	---	---	0	18.7	0.308	0.003	0.062	0	0	0	---	---	2.16	1967
1968	---	---	0.190	0.322	0.022	0.005	0.163	4.88	0.814	0.016	---	---	0.785	1968
1969	---	---	0	9.46	2.87	1.03	2.92	1.44	0.014	0	---	---	2.20	1969
1970	---	---	0	15.5	8.12	0.620	0.044	0	0	0	---	---	2.76	1970
1971	---	---	0	5.06	0.386	0.070	0.050	0.006	0	0.053	---	---	0.683	1971
1972	---	---	0.411	5.54	0.121	0	0	0.019	0	0	---	---	0.748	1972
1973	---	---	0.637	0.020	0.013	0.010	0.157	0.194	0.025	0.043	---	---	0.139	1973
1974	---	---	0	18.4	11.8	0.268	0	0	0	0	---	---	3.81	1974
1975	---	---	0	3.82	0.893	0.106	---	---	---	---	---	---	---	1975
1976	---	---	0	10.6	0.055	0.091	0.001	0	0	0	---	---	1.30	1976
1977	---	---	0.091	0.290	0.301	0.191	0.191	0	0.859	0	---	---	0.228	1977
MEAN	---	---	0.135	6.72	1.70	0.331	0.258	0.649	0.121	0.007	---	---	1.28	MEAN

LOCATION - LAT 49 48 42 N LONG 97 46 39 W DRAINAGE AREA, 859 km^2 REGULATED

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "ELM CREEK CHANNEL NO. 1 NEAR FANNYSTELLE"

ELM CREEK CHANNEL NEAR FANNYSTELLE - STATION NO. 05056004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	18.0 B ON APR 7	00 ON MAR 1 *	20 808	1960
1961	---	14.0 B ON APR 6	00 ON MAR 1	10 808	1961
1962	---	27.6 ON AUG 23	00 ON MAR 1	28 700	1962
1964	---	11.6 ON APR 15	00 ON MAR 1	7 130	1964
1965	---	58.8 ON APR 14	00 ON MAR 1	27 700	1965
1966	---	27.3 ON MAY 5	00 ON MAR 1	19 800	1966
1967	---	57.8 ON APR 20	00 ON MAR 1	45 800	1967
1968	---	36.6 ON AUG 24	00 ON MAR 1	18 800	1968
1969	---	42.8 B ON APR 10	00 ON MAR 1	48 800	1969
1970	---	68.1 ON APR 25	00 ON MAR 1	58 200	1970
1971	---	26.2 ON APR 11	00 ON MAR 1	14 700	1971
1972	29.2 B AT 04:20 CST ON APR 15	26.7 B ON APR 15	00 ON MAR 1	15 800	1972
1973	---	2.548 ON MAR 23	00 ON MAR 1	2 850	1973
1974	---	78.0 B ON APR 16 *	00 ON MAR 1	80 700	1974
1975	28.4 AT 02:15 CST ON APR 29	21.3 ON APR 29	00 ON MAR 1	---	1975
1976	88.5 B AT 02:00 CST ON APR 8 *	67.8 B ON APR 7	00 ON MAR 1	27 600	1976
1977	9.77 AT 23:13 CST ON SEP 9	4.42 ON SEP 10	00 ON MAR 1	4 600	1977
				28 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OGO06

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.84	0.145	0.050	0.003	0	0	0	---	---	0.501	1980
1981	---	---	0.284	0.789	0.028	0	0	0	0	0	---	---	0.264	1981
1982	---	---	0	0.797	0.285	0.187	0.008	0.878	0.005	0	---	---	0.335	1982
1984	---	---	0	0.484	0.018	0	0	0	0	0	---	---	0.123	1984
1985	---	---	0	2.67	0.228	0.104	0	0	0	0	---	---	0.726	1985
1986	---	---	0.008	0.588	0.759	0.002	0.133	0.019	0.043	0	---	---	0.340	1986
1987	---	---	0	4.51	0.588	0.002	0	0	0	0	---	---	1.35	1987
1988	---	---	0.026	0.186	0.016	0.002	0.038	1.08	0.244	0.018	---	---	0.057	1988
1989	---	---	0	3.16	1.07	0.435	1.83	0.282	0.002	0	---	---	1.16	1989
1970	---	---	0	4.76	2.89	0.191	0.008	0	0	0	---	---	1.85	1970
1971	---	---	0	1.18	0.122	0.009	0.097	0.003	0	0.024	---	---	0.323	1971
1972	---	---	0.394	1.40	0.078	0	0	0	0	0	---	---	0.464	1972
1973	---	---	0.324	0.005	0.008	0.001	0.004	0.005	0.002	0.005	---	---	0.068	1973
1974	---	---	0	8.27	8.89	0.297	0	0	0	0	---	---	3.17	1974
1975	---	---	0	0.897	0.255	0.031	---	---	---	---	---	---	0.317	1975
1976	---	---	0	2.66	0.041	0.037	---	0	0	---	---	---	0.874	1976
1977	---	---	0.001	0.059	0	0.012	---	---	---	---	---	---	0.018	1977
1978	---	---	0	1.41	0.267	0.133	---	---	---	---	---	---	0.461	1978
1979	---	---	0	8.57	7.22	0.780	---	---	---	---	---	---	3.40	1979
1980	---	---	0	0.325	0	0	---	---	---	---	---	---	0.080	1980
1981	---	0.006	0.003	0	0	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.048	0.276	0	0	---	---	---	---	---	---	0.081	1982
1983	---	---	0.387	1.29	0	0.038	---	---	---	---	---	---	0.426	1983
1984	---	---	0.040	0.022	0.058	0	---	---	---	---	---	---	0.030	1984
1985	---	---	1.58	0.270	0.002	0	---	---	---	---	---	---	0.469	1985
1986	---	---	2.10	3.89	4.48	0.004	---	---	---	---	---	---	3.62	1986
1987	---	---	0	2.97	0.010	0	---	---	---	---	---	---	0.732	1987
1988	---	---	0.004	0.205	0.011	0	---	---	---	---	---	---	0.054	1988
MEAN	---	0.008	0.185	1.73	0.812	0.082	0.152	0.136	0.020	0.003	---	---	0.726	MEAN

LOCATION - LAT 49 47 54 N DRAINAGE AREA, 494 km²
LONG 98 00 20 W REGULATED

REMARKS - AN EQUATION TO GENERATE SOME ANNUAL FLOW VOLUME IS AVAILABLE

ELM CREEK CHANNEL NO. 3 NEAR ELM CREEK - STATION NO. 05OGO06

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	4.96 ON APR 9	0S ON MAR 1 *	5 280	1980
1981	---	2.66 S ON MAR 31	0S ON MAR 1	2 780	1981
1982	---	7.62 S ON APR 30	0S ON MAR 1	3 530	1982
1984	---	1.70 S ON APR 11	0S ON MAR 1	1 300	1984
1985	---	15.6 ON APR 13	0S ON MAR 1	7 780	1985
1986	---	6.80 ON MAY 5	0S ON MAR 1	3 580	1986
1987	---	20.5 ON APR 21	0S ON MAR 1	13 200	1987
1988	---	2.36 ON APR 23	0S ON MAR 1	598	1988
1989	---	10.7 ON APR 11	0S ON MAR 1	12 200	1989
1970	---	24.7 ON APR 26	0S ON MAR 1	20 500	1970
1971	---	7.11 S ON APR 10	0S ON MAR 1	3 400	1971
1972	---	8.85 S ON APR 15	0S ON MAR 1	4 900	1972
1973	---	1.10 S ON MAR 22	0S ON MAR 1	807	1973
1974	---	41.6 E ON MAY 21 *	0S ON MAR 1	35 500	1974
1975	---	4.96 ON APR 29	0S ON MAR 1	3 340	1975
1976	---	11.7 S ON APR 6	0S ON MAR 1	7 110	1976
1977	---	0.3400 ON APR 13	0S ON MAR 1	168	1977
1978	---	8.74 S ON APR 10	0S ON MAR 1	4 750	1978
1979	---	23.4 ON APR 23	0S ON MAR 1	35 800	1979
1980	---	1.06 S ON APR 8	0S ON MAR 1	843	1980
1981	---	0.0118 ON MAR 1	0S ON MAR 18	7.52	1981
1982	1.858 AT 00:00 CST ON APR 13	1.26 S ON APR 13	0S ON MAR 1	851	1982
1983	---	8.07 S ON APR 4	0S ON MAR 1	4 490	1983
1984	1.04 AT 05:05 CST ON MAY 7	0.752 ON MAY 7	0S ON MAR 1	311	1984
1985	---	7.26 S ON MAR 18	0S ON MAR 1	4 930	1985
1986	18.2 AT 11:04 CST ON MAY 8	16.3 ON MAY 6	0S ON MAR 1	27 600	1986
1987	24.2 AT 22:01 CST ON APR 8 *	16.6 ON APR 7	0S ON MAR 1	7 720	1987
1988	3.699 AT 16:02 CST ON APR 2	2.15 S ON APR 2	0S ON MAR 1	571	1988
				7 840	MEAN

S - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.031	0.360	0.823	---	---	---	---	---	---	---	---	1961
1963	---	---	0.078	0.171	5.382	0.806	0.180	0.042	0.024	0.034	---	---	0.213	1963
1964	---	---	0.014	0.154	5.532	0.177	0.119	0.024	0.083	0.033	---	---	0.142	1964
1965	---	---	0.014	1.03	1.21	1.04	0.090	0.088	0.318	0.228	---	---	0.485	1965
1966	---	---	0.058	1.60	1.31	0.315	0.086	0.029	0.013	0.018	---	---	0.450	1966
1967	---	---	0.022	0.622	0.541	0.077	0.025	0.009	0.005	0.014	---	---	0.184	1967
1968	---	---	0.024	0.024	0.167	0.074	0.023	0.102	0.384	0.284	---	---	0.132	1968
1969	---	---	0.018	1.49	1.48	0.320	1.30	0.252	0.045	0.048	---	---	0.618	1969
1970	---	---	0.040	0.633	2.76	0.868	0.311	0.072	0.035	0.055	---	---	0.601	1970
1971	---	---	0.018	0.507	0.777	0.766	0.724	0.143	0.066	0.077	---	---	0.377	1971
1972	---	---	0.048	0.638	0.686	0.437	0.188	0.151	0.098	0.094	---	---	0.282	1972
1973	---	---	0.030	0.075	0.256	0.201	0.062	0.024	0.037	0.026	---	---	0.081	1973
1974	---	---	0	0.857	2.68	0.847	0.043	0.018	0.022	0.028	---	---	0.563	1974
1975	---	---	0.022	0.150	0.950	0.580	0.130	0.043	0.072	0.046	---	---	0.249	1975
1976	---	---	0.034	3.20	0.889	0.204	0.045	0.017	0.012	0.017	---	---	0.559	1976
1977	---	---	0.038	0.024	0.021	0.013	0.020	0.004	0	0	---	---	0.015	1977
1978	---	---	0.002	1.26	0.789	0.634	0.477	0.004	0.023	0.014	---	---	0.409	1978
1979	---	---	0.028	0.868	3.16	0.841	0.088	0.024	0.018	0.006	---	---	0.605	1979
1980	---	---	0.014	0.063	0.071	0.035	0.020	0.008	0.025	0.048	---	---	0.047	1980
1981	---	---	0.043	0.040	0.008	0.006	0.001	0.001	0.001	0.001	---	---	0.013	1981
1982	---	---	0	0.451	0.186	0.128	0.057	0.004	0.003	0.011	---	---	0.101	1982
1983	---	---	0	0.847	1.12	0.810	0.083	0.005	0.004	0.003	---	---	0.321	1983
1984	---	---	0	0.013	0.016	0.012	0.002	0.001	0.008	0.003	---	---	0.007	1984
1985	---	---	0.052	0.139	0.082	0.030	0.005	0.157	0.145	0.215	---	---	0.104	1985
1986	---	---	0.096	2.18	3.83	0.280	0.263	0.029	0.024	0.049	---	---	0.857	1986
1987	---	---	0.018	1.21	0.275	0.040	0.026	0.033	0.021	0.008	---	---	0.201	1987
1988	---	---	0.078	0.017	0	0	0.001	0	0	0.004	---	---	0.012	1988
MEAN	---	---	0.030	0.898	0.833	0.349	0.188	0.062	0.054	0.062	---	---	0.284	MEAN

LOCATION - LAT 49 44 28 N DRAINAGE AREA, 396 km²
LONG 99 19 50 W NATURAL FLOW

EPINETTE CREEK NEAR CARBERRY - STATION NO. 05MH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	---	---	---	1961
1963	---	1.23 ON JUN 24	0 B ON MAR 1 *	4 500	1963
1964	---	0.988 ON MAY 11	0.0148 ON MAR 1	3 000	1964
1965	---	2.40 ON APR 20	0.0148 ON MAR 1	10 500	1965
1966	---	3.60 ON APR 8	0.006 ON SEP 18	9 520	1966
1967	---	1.52 ON APR 26	0.003 ON SEP 2	3 460	1967
1968	---	0.532 ON SEP 8	0.002 ON JUL 11	2 800	1968
1969	---	3.78 ON APR 19	0.0148 ON MAR 1	13 100	1969
1970	---	6.00 ON MAY 1	0.021 ON SEP 20	12 700	1970
1971	---	1.78 ON APR 21	0 ON APR 19	7 970	1971
1972	---	1.38 ON APR 23	0.014 ON SEP 11	6 180	1972
1973	---	0.314 ON MAY 9	0.006 ON JUL 23	1 930	1973
1974	---	3.71 ON MAY 21	0 B ON MAR 1	11 900	1974
1975	---	1.35 ON MAY 7	0.001 ON AUG 6	5 280	1975
1976	---	5.72 ON APR 18	0.006 ON AUG 13	11 400	1976
1977	---	0.0488 ON MAR 28	0 ON SEP 10	317	1977
1978	---	2.74 ON APR 14	0 B ON MAR 1	6 580	1978
1979	---	6.40 ON MAY 1	0.006 ON OCT 26	12 800	1979
1980	---	0.602 ON AUG 21	0 ON APR 22	983	1980
1981	---	0.101A ON APR 6	0 B ON OCT 22	277	1981
1982	---	1.60 A ON APR 20	0 B ON MAR 1	2 180	1982
1983	2.89 B AT 01:55 CST ON APR 15	2.01 B ON APR 15	0 B ON MAR 1	6 790	1983
1984	1.22 AT 18:13 CST ON SEP 8	0.085 ON JUN 16	0 B ON MAR 1	146	1984
1985	0.598 AT 07:09 CST ON AUG 23	0.555 ON AUG 23	0 ON AUG 2	2 210	1985
1986	8.38 AT 18:09 CST ON MAY 8 *	8.22 ON MAY 8 *	0.067 ON SEP 4	18 100	1986
1987	2.94 AT 02:44 CST ON APR 20	2.41 ON APR 20	0.004 ON OCT 21	4 280	1987
1988	0.1688 AT 01:04 CST ON APR 5	0.1088 ON MAR 9	0 ON APR 14	357	1988
				6 210	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	220	226	211	220	208	166	---	1912
1913	192	184	169	195	207	229	252	236	226	197	188	183	201	1913
1914	168	148	151	180	183	184	168	148	138	123	113	102	150	1914
1915	95.8	92.7	84.3	83.2	78.0	83.9	79.7	70.3	57.7	60.4	54.2	50.1	73.0	1915
1916	43.8	44.0	45.3	50.8	58.1	67.3	68.6	77.2	69.8	64.3	64.3	58.9	60.1	1916
1917	54.1	54.6	61.6	68.7	66.8	68.7	61.1	73.2	70.7	65.3	66.8	68.3	65.0	1917
1918	58.6	59.3	63.7	66.3	67.7	78.7	79.1	84.1	71.0	72.9	70.0	66.1	69.8	1918
1919	62.7	59.6	55.7	69.7	70.8	71.6	70.3	64.0	48.5	34.6	---	---	---	1919
1920	---	---	---	---	---	44.3	50.3	44.8	39.0	33.4	---	---	---	1920
1955	---	---	---	---	---	---	---	---	---	---	207	193	200	---	1955
1956	192	190	181	173	189	210	189	178	185	158	147	151	178	1956
1957	149	141	133	135	141	142	149	126	114	108	99.7	84.0	127	1957
1958	90.1	85.9	82.9	80.0	75.4	81.5	90.6	44.2	36.5	13.6	20.0	11.6	55.2	1958
1959	11.6	7.87	9.11	12.4	16.5	21.2	39.4	44.6	18.1	12.0	48.2	42.8	23.7	1959
1960	7.57	53.1	58.5	62.5	79.7	82.8	71.5	61.8	48.4	38.1	21.4	0	48.6	1960
1961	0	0	0	0	0	0	38.7	19.0	0.850	0	55.7	3.22	9.56	1961
1962	3.28	3.41	2.80	2.41	1.98	1.79	1.88	2.48	2.86	2.09	1.76	1.66	2.36	1962
1963	1.69	1.59	1.71	1.76	1.66	7.56	66.6	39.6	2.88	2.13	1.70	2.04	11.3	1963
1964	2.15	2.04	2.08	2.01	1.89	1.90	1.80	1.84	1.80	1.35	1.22	1.97	1.75	1964
1965	1.15	1.24	1.38	1.77	2.18	3.01	2.75	2.49	2.10	1.41	2.18	1.87	1.97	1965
1966	2.26	2.08	2.81	3.30	8.74	112	110	87.5	47.8	20.1	4.46	5.70	34.1	1966
1967	6.24	6.54	45.2	115	234	250	190	152	31.0	4.34	3.58	44.3	80.7	1967
1968	88.3	87.1	85.7	81.9	42.0	101	111	83.4	78.5	83.1	86.0	132	89.3	1968
1969	88.2	88.2	88.8	98.5	105	88.1	81.6	67.4	41.4	18.2	13.1	7.23	61.8	1969
1970	6.85	7.33	34.6	87.3	122	255	213	186	111	50.7	2.22	0	85.7	1970
1971	0	6.52	84.0	184	239	226	183	84.7	84.3	84.2	72.1	91.7	108	1971
1972	80.8	83.6	86.8	102	146	226	126	26.1	2.48	6.33	48.0	48.0	82.8	1972
1973	46.5	47.9	7.73	6.78	7.48	86.8	151	84.3	53.6	84.0	88.3	74.9	64.4	1973
1974	72.8	74.5	72.8	177	287	321	272	200	158	148	131	130	172	1974
1975	114	77.0	71.7	99.6	183	242	207	121	173	209	196	171	154	1975
1976	183	138	134	204	318	317	276	210	104	20.7	7.86	3.80	168	1976
1977	4.29	4.88	4.96	3.48	6.03	101	188	24.8	16.4	78.2	82.6	82.6	50.2	1977
1978	82.7	88.9	82.5	87.0	88.0	82.7	44.7	20.9	16.0	18.2	24.7	23.7	52.4	1978
1979	25.0	25.8	37.8	140	308	330	301	240	185	117	112	108	155	1979
1980	108	108	105	98.9	98.3	23.8	9.16	10.4	88.1	59.6	84.2	83.1	82.7	1980
1981	51.4	50.2	30.2	18.9	16.8	16.1	23.5	21.4	19.2	18.4	17.0	16.2	24.7	1981
1982	15.8	15.8	16.6	17.9	18.1	19.3	18.8	20.4	14.8	22.3	9.78	6.42	16.6	1982
1983	6.68	9.48	8.97	12.5	74.8	113	154	134	84.3	48.7	48.8	38.7	59.3	1983
1984	38.1	33.8	33.5	36.5	38.8	72.9	180	113	31.2	48.1	38.8	84.3	68.0	1984
1985	85.6	88.3	82.3	117	117	118	70.4	30.8	45.8	86.1	82.6	82.2	78.0	1985
1986	76.8	74.5	73.1	87.6	282	288	246	122	46.7	52.1	88.3	83.6	120	1986
1987	83.5	82.1	70.1	137	155	112	33.4	14.1	12.7	38.7	34.1	34.8	63.6	1987
1988	36.3	36.1	36.0	23.9	106	144	85.3	16.3	12.0	10.8	11.8	14.5	42.5	1988
MEAN	58.5	57.7	60.5	76.3	102	121	118	84.4	62.1	63.3	62.6	60.8	75.6	MEAN

LOCATION - LAT 51 36 00 N DRAINAGE AREA, 80 100 km²
LONG 98 43 15 W REGULATED SINCE 1934

FAIRFORD RIVER NEAR FAIRFORD - STATION NO. 05LM001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	328 ON SEP 9	142 B ON JAN 20	5 340 000	1913
1914	---	274 ON MAY 20	80.9 B ON DEC 24	4 740 000	1914
1915	---	112 B ON JAN 5	38.8 ON SEP 15	2 330 000	1915
1916	---	118 ON JUL 19	30.0 ON SEP 14	1 808 000	1916
1917	---	102 ON JUL 25	38.5 ON JUN 15	2 080 000	1917
1918	---	102 ON JUN 20	38.5 ON NOV 9	2 200 000	1918
1919	---	103 ON JUL 8	27.1 ON OCT 10	---	1919
1920	---	---	---	---	1920
1955	---	---	---	---	1955
1956	---	227 ON JUN 7	135 ON OCT 9	5 810 000	1956
1957	---	143 ON JUL 24	76.5 ON NOV 23	4 000 000	1957
1958	---	83.4 ON JAN 5	7.83 ON OCT 10	1 740 000	1958
1959	---	70.8 ON JUL 24	3.91 ON OCT 9	747 000	1959
1960	---	88.5 ON JUN 27	0 ON NOV 28 *	1 540 000	1960
1961	---	151 ON NOV 22	0 ON JAN 1	301 000	1961
1962	---	6.46 ON AUG 27	1.19 ON JUN 29	74 800	1962
1963	---	105 E ON JUL 16	1.51 ON NOV 13	365 000	1963
1964	---	2.358 ON JAN 28	1.06 B ON DEC 11	55 200	1964
1965	---	4.11 ON JUN 19	0.130 ON OCT 9	82 100	1965
1966	147 AT 20:10 CST ON JUL 4	130 ON JUN 11	1.22 B ON FEB 13	1 070 000	1966
1967	362 AT 19:20 CST ON JUN 3	323 ON JUN 3	3.26 ON NOV 12	2 880 000	1967
1968	231 B AT 06:00 CST ON DEC 6	221 B ON DEC 6	5.41 ON MAY 10	2 820 000	1968
1969	136 AT 13:57 CST ON MAY 6	131 ON MAY 6	5.32 ON OCT 9	1 850 000	1969
1970	385 AT 13:27 CST ON JUL 1 *	334 ON JUL 1	0 B ON NOV 15	2 730 000	1970
1971	320 AT 09:04 CST ON MAY 28	280 ON MAY 28	0 B ON JAN 1	3 400 000	1971
1972	317 AT 01:43 CST ON JUN 14	255 ON JUN 13	0.681 ON OCT 18	2 610 000	1972
1973	225 AT 18:18 CST ON JUL 22	206 ON JUL 23	4.96 ON MAY 13	1 720 000	1973
1974	366 AT 18:18 CST ON JUN 26	351 ON JUN 6 *	49.3 ON NOV 14	5 420 000	1974
1975	351 AT 14:08 CST ON JUN 28	309 ON JUN 27	54.1 ON AUG 17	4 680 000	1975
1976	368 AT 10:45 CST ON MAY 18	345 ON MAY 16	3.85 B ON DEC 7	4 980 000	1976
1977	270 AT 18:41 CST ON JUN 25	249 ON JUN 22	2.25 ON MAY 2	1 580 000	1977
1978	---	89.1 B ON JAN 8	8.36 ON OCT 5	1 850 000	1978
1979	---	351 ON JUN 6	11.8 ON SEP 6	4 880 000	1979
1980	116 AT 20:42 CST ON JAN 15	114 B ON JAN 12	7.06 ON AUG 26	1 980 000	1980
1981	88.0 AT 08:56 CST ON JAN 3	82.0 B ON JAN 1	8.93 ON JUN 15	778 000	1981
1982	107 AT 17:32 CST ON OCT 13	92.9 ON OCT 13	5.72 E ON NOV 4	524 000	1982
1983	184 AT 00:23 CST ON JUL 17	176 ON JUL 16	5.12 ON NOV 28	1 670 000	1983
1984	200 AT 08:57 CST ON JUN 30	182 ON JUN 30	8.93 ON APR 27	1 830 000	1984
1985	166 AT 18:26 CST ON JUN 8	139 ON JUN 8	21.0 ON AUG 17	2 480 000	1985
1986	331 AT 11:50 CST ON JUN 2	310 ON MAY 16	19.8 ON NOV 8	3 780 000	1986
1987	187 AT 13:56 CST ON JUN 2	181 ON MAY 17	8.76 ON OCT 5	2 000 000	1987
1988	173 AT 17:56 CST ON MAY 17	164 ON MAY 31	8.36 ON OCT 26	1 350 000	1988
				2 380 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05BB005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.083	0.137	0.917	0.006	0.012	0.020	0.027	0.310	---	---	0.075	1968
1969	---	---	0	1.16	1.25	0.630	0.081	0.024	0	0.453	---	---	0.454	1969
1970	---	---	E	0.481	0.435	0.471	0.351	0	0	0.217	---	---	0.243	1970
1971	---	---	E	0.282	0.062	0.009	0.007	0	0	0.056	---	---	0.051	1971
1972	---	---	E	0.460	0.024	0	0	0	0.002	0	---	---	0.050	1972
1973	---	---	0.089	0.004	0	0.171	0	0.070	0.418	1.83	---	---	0.224	1973
1974	---	---	0	5.82	3.75	1.92	1.59	0.838	0.902	1.87	---	---	2.04	1974
1975	---	---	0	0.821	0.437	0.272	0.187	0.343	0.602	0.508	---	---	0.343	1975
1976	---	---	0	3.15	1.90	1.08	0.602	0.228	0.049	0	---	---	0.685	1976
1977	---	---	0.002	0.064	0.002	0.268	0.313	0.264	1.07	0.589	---	---	0.324	1977
1978	---	---	0	2.87	1.51	1.11	0.847	0.506	0.464	0.236	---	---	0.933	1978
1979	---	---	0	1.75	2.74	2.02	1.02	0.567	0.418	0.289	---	---	1.10	1979
1980	---	---	0	0.834	0.543	0.055	0.160	0.011	0.022	0.025	---	---	0.181	1980
1981	---	---	0.087	0.021	0.003	0.018	0.018	0.201	0.525	0.079	---	---	0.119	1981
1982	---	---	0.143	1.83	0.894	0.545	0.234	0.133	0.103	1.02	---	---	0.588	1982
1983	---	---	0.005	1.57	1.28	0.741	0.925	0.058	0	0.013	---	---	0.572	1983
1984	---	---	0.036	0.110	0.010	0.010	0.001	0	0	0.026	---	---	0.025	1984
1985	---	---	0.178	0.267	0.006	0.001	0.002	0.007	0.010	0.022	---	---	0.069	1985
1986	---	---	0.427	1.71	1.81	0.968	0.441	0.241	0.018	0.009	---	---	0.869	1986
1987	---	---	0	1.75	1.43	0.441	0.078	0.009	0.001	0.001	---	---	0.481	1987
1988	---	---	0	0.243	0.104	0	0	0	0	0	---	---	0.043	1988
MEAN	---	---	0.050	1.17	0.888	0.510	0.325	0.175	0.210	0.317	---	---	0.450	MEAN

LOCATION - LAT 50 42 11 N DRAINAGE AREA, 832 km^2
LONG 97 01 03 W REGULATED SINCE 1965

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1970

FISH LAKE DRAIN NEAR CAMP MORTON - STATION NO. 05SB005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	0.885 ON OCT 10	0B ON MAR 1 *	1 580	1968
1969	---	8.88 ON APR 13	0B ON MAR 1	9 580	1969
1970	---	2.08 ON APR 18	0B ON MAR 1	5 150	1970
1971	---	1.83 ON APR 18	0B ON MAR 1	1 080	1971
1972	---	3.26 B ON APR 15	0B ON MAR 1	1 260	1972
1973	---	4.38 ON OCT 12	0B ON MAR 1	4 780	1973
1974	---	18.8 ON APR 20 *	0B ON MAR 1	43 100	1974
1975	---	1.91 B ON APR 21	0B ON MAR 1	7 280	1975
1976	---	5.97 ON APR 9	0B ON MAR 1	18 400	1976
1977	---	5.86 ON SEP 10	0B ON MAR 1	6 860	1977
1978	---	5.84 ON APR 18	0B ON MAR 1	19 600	1978
1979	---	8.58 ON APR 21	0B ON MAR 1	23 200	1979
1980	---	1.85 ON APR 11	0B ON MAR 1	3 820	1980
1981	---	2.70 A ON SEP 10	0B ON MAR 1	2 520	1981
1982	---	4.74 B ON APR 15	0B ON MAR 1	12 400	1982
1983	---	4.82 B ON APR 5	0B ON MAR 1	12 100	1983
1984	0.877 AT 20:00 CST ON APR 3	0.483A ON APR 3	0B ON MAR 1	525	1984
1985	2.38 B AT 08:36 CST ON APR 5	1.35 B ON MAR 29	0B ON MAR 1	1 480	1985
1986	8.07 B AT 20:15 CST ON MAR 31 *	5.57 B ON APR 1	0B ON MAR 1	14 500	1986
1987	---	4.07 B ON APR 5	0B ON MAR 1	9 740	1987
1988	---	1.88 B ON APR 3	0B ON MAR 1	811	1988
				9 530	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.132	1.16	0.502	0.079	0.024	0.001	0.435	---	---	0.293	1969
1970	---	---	0	0.004	0.328	0.687	0.884	0.002	0	0.243	---	---	0.214	1970
MEAN	---	---	0	0.068	0.745	0.535	0.322	0.013	0.001	0.339	---	---	0.254	MEAN

LOCATION - LAT 50 44 46 N, LONG 97 19 06 W
DRAINAGE AREA, 526 km^2
REGULATED

REMARKS - PUBLISHED AS "CHATFIELD LAKE DRAIN" PRIOR TO 1979

FISH LAKE DRAIN NEAR MELEB - STATION NO. 05SB004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	2.21E ON MAY 19 *	0B ON MAR 1 *	5 200	1969
1970	---	1.33 ON JUN 25	0B ON MAR 1	4 530	1970
				5 370	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	1.58	0.917	0.388	0.223	0.158	0.191	0.281	0.242	0.138	---	1961
1962	0.061	0.055	0.055	3.58	0.791	0.784	0.347	0.388	0.362	0.421	0.388	0.259	0.643	1962
1963	0.089	0.021	0.381	17.9	4.10	18.8	3.06	1.31	0.691	0.485	0.418	0.290	3.88	1963
1964	0.238	0.213	0.231	4.00	4.15	1.02	0.771	0.713	0.624	0.651	0.556	0.350	1.13	1964
1965	0.278	0.184	0.186	8.10	1.85	2.38	1.02	0.501	0.488	0.475	0.436	0.382	1.35	1965
1966	0.317	0.277	0.311	7.58	5.57	1.06	0.508	0.306	0.236	0.282	0.246	0.241	1.41	1966
1967	0.217	0.185	0.236	9.18	2.50	0.804	0.491	0.390	0.232	0.363	0.317	0.274	1.28	1967
1968	0.183	0.175	0.842	4.07	1.84	1.80	0.970	0.596	0.889	0.684	0.541	0.310	1.05	1968
1969	0.267	0.300	0.295	8.17	1.10	1.30	0.830	4.61	1.46	2.39	1.01	0.470	1.83	1969
1970	0.355	0.315	0.281	12.3	7.88	1.83	0.745	0.330	0.353	0.334	0.318	0.217	2.12	1970
1971	0.163	0.088	0.189	5.83	0.840	0.462	0.337	0.233	0.238	0.292	0.262	0.216	0.784	1971
1972	0.141	0.100	0.138	11.2	1.73	0.546	0.337	0.300	0.218	0.244	0.193	0.106	1.26	1972
1973	0.067	0.067	1.03	0.617	0.348	3.14	0.408	0.286	0.632	1.72	0.708	0.432	0.771	1973
1974	0.311	0.371	0.369	32.1	28.1	8.32	0.891	0.388	0.380	0.385	0.381	0.274	5.86	1974
1975	0.201	0.186	0.233	5.58	1.11	0.775	0.552	14.1	18.1	8.35	2.34	0.886	4.04	1975
1976	0.852	0.540	0.481	46.6	8.01	1.27	0.593	0.344	0.238	0.251	0.235	0.110	4.74	1976
1977	0.078	0.075	0.241	0.720	0.852	0.880	0.778	0.280	0.486	0.886	0.471	0.318	0.440	1977
1978	0.241	0.211	0.264	12.5	1.87	1.46	0.943	0.432	0.462	0.348	0.347	0.304	1.81	1978
1979	0.195	0.188	0.228	26.9	19.1	4.46	0.823	0.490	0.418	0.416	0.393	0.273	4.85	1979
1980	0.211	0.249	0.223	5.12	0.486	0.252	0.250	0.906	1.13	0.840	0.770	0.503	0.915	1980
1981	0.383	0.473	1.94	1.75	1.09	2.23	0.550	0.770	1.24	2.82	3.86	0.714	1.48	1981
1982	0.398	0.312	0.101	16.7	3.88	1.68	1.52	0.695	0.483	0.618	0.416	0.578	2.36	1982
1983	0.280	0.237	0.274	12.7	1.27	2.97	0.782	0.338	0.236	0.320	0.322	0.156	1.84	1983
1984	0.083	0.116	0.369	1.90	0.814	12.2	1.87	0.264	0.213	0.387	0.613	0.624	1.89	1984
1985	0.447	0.343	2.11	8.29	1.04	1.14	0.575	3.41	1.85	2.88	1.72	0.504	2.01	1985
1986	0.338	0.262	2.37	30.6	16.9	1.26	0.713	0.342	0.310	0.323	0.250	0.221	4.48	1986
1987	0.178	0.158	0.316	8.86	0.868	0.380	0.305	0.358	0.229	0.347	0.338	0.283	1.10	1987
1988	0.097	0.088	0.185	3.64	3.41	0.425	0.231	0.180	0.178	0.184	0.181	0.108	0.738	1988
MEAN	0.237	0.214	0.524	11.1	4.28	2.57	0.748	1.19	1.09	0.928	0.682	0.337	2.04	MEAN

LOCATION - LAT 51 21 20 N DRAINAGE AREA, 1 710 km²
LONG 97 30 50 W NATURAL FLOW

FISHER RIVER NEAR DALLAS - STATION NO. 05SD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	4.63E ON APR 20	---	---	1961
1962	---	26.7 ON APR 22	0.051 ON MAR 2	20 300	1962
1963	---	70.2 B ON APR 9	0.0068 ON MAR 5 *	125 000	1963
1964	---	15.9 ON APR 18	0.187 ON FEB 27	35 800	1964
1965	---	54.1 ON APR 15	0.133 ON MAR 7	42 500	1965
1966	---	34.6 ON APR 4	0.183E ON NOV 15	44 500	1966
1967	---	46.2 ON APR 15	0.147 ON SEP 24	38 700	1967
1968	---	10.4 ON APR 9	0.078E ON MAR 4	33 200	1968
1969	---	43.9 B ON APR 13	0.227B ON JAN 12	57 800	1969
1970	---	38.5 ON APR 20	0.183E ON NOV 26	66 600	1970
1971	---	26.4 B ON APR 12	0.87AE ON FEB 17	24 100	1971
1972	---	48.4 B ON APR 19	0.062B ON DEC 30	38 800	1972
1973	10.4 AT 21:30 CST ON JUN 18	9.86 ON JUN 19	0.048B ON JAN 6	24 300	1973
1974	106 AT 18:35 CST ON APR 22	106 ON APR 22	0.207 ON JAN 15	185 000	1974
1975	42.8 AT 06:21 CST ON AUG 27	42.2 ON AUG 27	0.150 ON JAN 24	128 000	1975
1976	88.7 AT 20:43 CST ON APR 8	88.2 ON APR 9	0.085 ON DEC 9	149 000	1976
1977	1.75 AT 10:57 CST ON MAY 20	1.67 ON MAY 20	0.084 ON JAN 22	13 800	1977
1978	83.4 AT 10:15 CST ON APR 18	58.6 ON APR 18	0.178B ON FEB 7	50 800	1978
1979	121 AT 14:00 CST ON APR 23 *	119 ON APR 23 *	0.144B ON JAN 17	147 000	1979
1980	20.1 AT 06:00 CST ON APR 11	14.6 ON APR 11	0.153 ON AUG 3	28 800	1980
1981	9.08 AT 19:14 CST ON NOV 1	8.77B ON MAR 30	0.205B ON FEB 13	47 100	1981
1982	---	48.7 E ON APR 17	0.183E ON FEB 18	74 000	1982
1983	45.4 B AT 12:00 CST ON APR 8	45.4 B ON APR 8	0.083E ON DEC 31	51 700	1983
1984	81.1 A ON JUN 24	73.2 A ON JUN 24	0.067B ON JAN 30	49 800	1984
1985	26.8 B AT 00:51 CST ON APR 4	25.0 B ON APR 3	0.307B ON FEB 12	63 400	1985
1986	91.0 B AT 06:32 CST ON APR 4	87.4 B ON APR 4	0.188B ON NOV 14	141 000	1986
1987	82.6 B AT 12:03 CST ON APR 8	56.4 B ON APR 8	0.106B ON JAN 27	34 700	1987
1988	20.6 B AT 13:25 CST ON APR 5	19.9 B ON APR 5	0.073B ON JAN 14	23 300	1988
				84 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	0	5.75	4.02	0.013	0.570	0.184	0.039	0	---	---	1.33	1948
1949	---	---	0	0.882	0.098	0.123	0.092	0.018	0	0	---	---	0.117	1949
1950	---	---	0	1.12	0.277	0.385	0.303	0.058	0	0.004	---	---	0.270	1950
1951	---	---	0	1.58	0.828	0.073	0.104	0.208	0.232	0.273	---	---	0.410	1951
1952	---	---	0	2.25	0.170	0.052	0.005	0	0	0	---	---	0.302	1952
1953	---	---	0	1.50	0.849	6.26	1.19	0.274	0.103	0.181	---	---	1.27	1953
1954	---	---	0	2.61	1.85	5.19	1.47	0.013	0.414	0.884	0.127	---	1.84	1954
1955	---	---	0	3.21	2.46	0.883	0.068	0	0	0	---	---	0.831	1955
1956	---	---	0	0.327	3.23	0.488	0.373	0.047	0.018	0.008	---	---	0.585	1956
1957	---	---	0.029	1.71	0.840	0.075	0.005	0	0	0	---	---	0.304	1957
1958	---	---	0.027	0.071	0.006	0.001	0	0	0	0	---	---	0.013	1958
1959	---	---	0.014	0.122	0.065	0.086	0.058	0	0	0	---	---	0.039	1959
1960	---	---	0	1.32	0.473	0.074	0.002	0	0	0	---	---	0.231	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0.285	0.086	0.073	0	0	0	0	---	---	0.065	1962
1963	---	---	0.182	0.444	0.101	0.158	0.017	0.001	0	0	---	---	0.112	1963
1964	---	---	0	0.047	0.031	0	0	0	0	0	---	---	0.010	1964
1965	---	---	0	0.074	0.061	0.086	0.268	0.065	0.432	0.185	---	---	0.146	1965
1966	---	---	0.560	1.82	0.848	0.236	0.157	0.004	0.001	0.005	---	---	0.481	1966
1967	---	---	0.003	0.533	1.36	0.058	0	0	0	0	---	---	0.245	1967
1968	---	---	0.180	0.008	0.001	0	0	0	0	0	---	---	0.025	1968
1969	---	---	0	0.862	0.078	0.032	0.218	0.033	0.117	0.003	---	---	0.178	1969
1970	---	---	0.001	2.30	1.78	0.847	0.832	0.074	0.001	0.002	---	---	0.740	1970
1971	---	---	0.002	2.11	0.047	0.414	0.004	0	0	0.002	---	---	0.316	1971
1972	---	---	0.008	1.44	0.356	0.003	0	0	0	0	---	---	0.222	1972
1973	---	---	0	0.001	0.001	0.008	0.001	0	0	0	---	---	0.001	1973
1974	---	---	0	2.83	5.86	0.470	0.008	0	0	0	---	---	1.15	1974
1975	---	---	0	2.01	0.775	0.878	0	0	0.227	0.082	---	---	0.500	1975
1976	---	---	0.001	3.80	0.034	7.16	0.087	0	0	0	---	---	1.33	1976
1977	---	---	0.003	0.011	0.003	0.001	0	0.002	0.040	0.058	---	---	0.015	1977
1978	---	---	0.008	0.582	0.086	0.033	0.038	0	0.001	0.003	---	---	0.095	1978
1979	---	---	0	4.42	2.90	0.444	0.013	0.008	0	0	---	---	0.868	1979
1980	---	---	0	8.858	5.004	0	0	0.003	0	0.001	---	---	0.881	1980
1981	---	---	0.002	0.008	8.031	0.157	0.130	0	0	0.005	---	---	0.041	1981
1982	---	---	0.202	8.473	8.102	0.027	0.089	0.022	0	0.025	---	---	0.117	1982
MEAN	---	---	0.035	1.34	0.837	0.745	0.181	0.030	0.048	0.042	0.127	---	8.403	MEAN

LOCATION - LAT 51 26 57 N DRAINAGE AREA, 283 km²
LONG 100 02 26 W NATURAL FLOW

FISHING RIVER NEAR FORK RIVER - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1948	---	28.7 ON APR 24	0.0 ON MAR 1 *	28 100	1948
1949	---	2.58 ON APR 4	0.0 ON MAR 1	2 480	1949
1950	---	6.41 ON APR 20	0.0 ON MAR 1	5 710	1950
1951	---	5.30 ON APR 8	0.0 ON MAR 1	8 870	1951
1952	---	15.1 B ON APR 7	0.0 ON MAR 1	6 420	1952
1953	---	28.6 ON JUN 5	0.0 ON MAR 1	28 800	1953
1954	---	20.2 B ON APR 17	0.0 ON MAR 1	34 700	1954
1955	---	13.5 ON APR 6	0.0 ON MAR 1	17 600	1955
1956	---	7.48 ON MAY 1	0.0 ON MAR 1	12 000	1956
1957	---	4.22 ON APR 29	0.0 ON MAR 1	6 440	1957
1958	---	0.5958 ON MAR 31	0.0 ON MAR 1	278	1958
1959	---	0.388 ON APR 6	0.0 ON MAR 1	830	1959
1960	---	4.11 ON APR 18	0.0 ON MAR 1	4 900	1960
1961	---	0 B ON MAR 1	0.0 ON MAR 1	0	1961
1962	---	2.62 ON APR 18	0.0 ON MAR 1	1 160	1962
1963	---	1.56 B ON APR 8	0.0 ON MAR 1	2 370	1963
1964	---	0.142 ON APR 12	0 ON MAR 1	205	1964
1965	---	2.83 ON SEP 24	0.0 ON MAR 1	3 080	1965
1966	---	5.83 ON APR 1	0 ON JUL 24	8 540	1966
1967	---	6.17 B ON MAY 1	0.0 ON MAR 1	5 180	1967
1968	---	1.16 B ON MAR 27	0.0 ON MAR 1	533	1968
1969	---	6.20 ON APR 14	0.0 ON MAR 1	3 760	1969
1970	---	7.50 ON APR 27	0.0 ON MAR 1	15 700	1970
1971	---	7.87 B ON APR 12	0 ON JUL 24	6 880	1971
1972	---	5.15 B ON APR 10	0 ON JUN 15	4 700	1972
1973	---	0.065 ON JUN 28	0.0 ON MAR 1	21.6	1973
1974	---	18.2 ON APR 20	0.0 ON MAR 1	24 300	1974
1975	---	8.41 ON APR 28	0.0 ON MAR 1	10 600	1975
1976	---	52.4 ON JUN 15 *	0.0 ON MAR 1	28 300	1976
1977	0.402 AT 11:35 CST ON SEP 28	0.328 ON SEP 28	0.0 ON MAR 1	311	1977
1978	---	2.21 B ON APR 10	0.0 ON MAR 1	2 000	1978
1979	24.4 AT 00:49 CST ON APR 24 *	20.8 ON APR 24	0.0 ON MAR 1	20 500	1979
1980	6.14 B AT 13:35 CST ON APR 7	3.78 B ON APR 7	0.0 ON MAR 1	1 720	1980
1981	3.81 AT 00:56 CST ON JUN 24	1.90 ON JUN 24	0.0 ON MAR 1	872	1981
1982	---	3.17 B ON APR 15	0.0 ON MAR 1	2 480	1982
				8 540	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 06TF002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	---	---	---	---	---	---	---	2.84	1.97	1.47	---	1977
1978	1.18	0.820	0.723	0.935	5.48	5.92	2.41	5.80	7.60	10.1	5.92	3.38	4.30	1978
1979	2.70	2.46	2.37	2.38	3.89	7.55	3.83	2.49	2.47	3.27	3.07	2.77	3.26	1979
1980	1.77	1.18	1.04	1.83	3.27	1.41	0.851	1.22	7.52	11.1	10.2	6.02	3.86	1980
1981	3.85	2.04	1.88	1.40	7.49	5.42	1.84	0.814	0.410	0.388	0.518	0.708	2.14	1981
1982	0.836	0.861	0.863	1.17	10.7	10.8	5.78	4.60	6.63	6.62	5.18	3.65	4.61	1982
1983	2.78	2.17	1.88	1.80	8.87	10.9	8.06	4.45	---	---	---	---	---	1983
1984	1.29	0.880	0.820	3.12	7.29	6.16	2.27	1.38	1.44	1.62	2.62	2.27	2.88	1984
1985	1.42	0.833	0.671	1.50	11.2	---	---	4.75	2.40	1.88	1.45	1.02	---	1985
1986	0.841	0.750	0.883	1.37	11.3	9.24	6.71	7.69	5.16	3.40	2.85	2.78	4.80	1986
1987	2.37	1.92	1.77	2.68	8.78	4.11	2.88	1.53	1.74	2.01	1.94	1.87	2.87	1987
1988	1.72	1.57	1.52	1.90	9.05	6.86	3.37	1.54	0.726	0.557	0.861	1.32	2.57	1988
MEAN	1.81	1.43	1.27	1.84	7.58	6.83	3.84	3.30	3.58	3.84	3.44	2.49	3.43	MEAN

LOCATION - LAT 55 55 50 N DRAINAGE AREA, 899 km²
LONG 98 53 10 W NATURAL FLOW

FOOTPRINT RIVER ABOVE FOOTPRINT LAKE - STATION NO. 06TF002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	---	---	---	---	1977
1978	11.4 AT 16:00 CST ON OCT 11	11.1 ON OCT 11	0.897 ON MAR 17	136 000	1978
1979	9.10 AT 12:12 CST ON JUN 7	9.13 ON JUN 7	2.25 ON SEP 15	103 000	1979
1980	---	11.7 E ON OCT 22	0.788E ON AUG 21	125 000	1980
1981	12.0 AT 21:00 CST ON MAY 21	11.6 ON MAY 20	0.259 ON OCT 3 *	67 700	1981
1982	13.0 AT 23:59 CST ON JUN 10	12.8 ON JUN 11	0.802 ON APR 4	152 000	1982
1983	13.7 AT 16:30 CST ON JUN 3	13.4 ON JUN 3	---	---	1983
1984	8.41 AT 14:40 CST ON MAY 24	8.26 ON MAY 26	0.508B ON APR 5	81 800	1984
1985	---	---	0.475B ON APR 16	---	1985
1986	15.4 AT 11:20 CST ON MAY 20 *	15.3 ON MAY 20 *	0.854B ON APR 1	145 000	1986
1987	8.80 AT 16:30 CST ON MAY 5	8.16 ON MAY 5	1.19 ON AUG 28	84 300	1987
1988	10.8 AT 14:58 CST ON MAY 14	10.6 ON MAY 14	0.491 ON OCT 16	81 400	1988
				108 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.58	4.31	7.81	1.25	0.750	2.44	2.44	---	---	---	1954
1955	---	---	---	3.32	3.47	1.67	0.183	0	0	0	---	---	---	1955
1956	---	---	0.028	0.675	3.92	1.43	0.774	0.031	0.376	0.196	---	---	0.885	1956
1957	---	---	0.028	2.63	1.89	0.542	0.018	0	0.001	0	---	---	0.588	1957
1958	---	---	0.062	0.346	0.094	0.033	0.142	0.085	0.266	0.088	---	---	0.140	1958
1959	---	---	0.169	0.688	0.700	2.04	0.606	0.015	0.030	0.417	---	---	0.579	1959
1960	---	---	0	3.77	3.27	0.887	0.083	0.165	0.041	0	---	---	1.03	1960
1961	---	---	0.008	0.033	0.026	0.007	0	0	0	0	---	---	0.008	1961
1962	---	---	0	0.295	0.041	0.250	0.083	0	0	0	---	---	0.084	1962
1963	---	---	0.419	0.774	1.30	1.04	0.087	0	0	0	---	---	0.449	1963
1964	---	---	0	0.204	0.951	0.004	0	0	0	0	---	---	0.146	1964
1965	---	---	0	0.348	1.52	0.758	0.088	0.318	0.701	0.328	---	---	0.503	1965
1966	---	---	0.132	2.75	2.13	1.85	0.458	0.028	0	0	---	---	0.886	1966
1967	---	---	0	0.824	2.67	0.305	0.010	0.001	0	0	---	---	0.469	1967
1968	---	---	0.083	0.085	0.085	0.033	0.007	0.111	0.054	0.011	---	---	0.059	1968
1969	---	---	0	1.88	0.892	0.526	1.10	0.187	0.023	0.588	---	---	0.820	1969
1970	---	---	0.005	3.38	5.41	2.28	2.10	0.444	0.050	0.335	---	---	1.75	1970
1971	---	---	0.024	3.89	0.597	1.49	0.182	0.022	0	0.089	---	---	0.768	1971
1972	---	---	0	2.34	1.61	0.113	0.002	0	0	0	---	---	0.505	1972
1973	---	---	0.004	0.036	0.068	0.777	0.070	0.005	0.627	0.325	---	---	0.238	1973
1974	---	---	0	4.73	7.73	1.80	0.034	0	0.016	0.186	---	---	1.77	1974
1975	---	---	0	3.08	3.64	3.28	0.183	0.011	0.575	0.417	---	---	1.38	1975
1976	---	---	0.013	4.89	0.894	7.70	0.817	0.011	0.001	0	---	---	1.74	1976
1977	---	---	0	0.080	0.248	0.023	0.003	0.003	0.038	0.107	---	---	0.064	1977
1978	---	---	0.038	0.527	0.522	0.187	0.011	0.001	0.027	0.028	---	---	0.167	1978
1979	---	---	0	2.86	4.40	1.48	0.072	0.008	0	0.007	---	---	1.10	1979
1980	---	---	0	1.21	0.147	0.002	0.002	0.148	0.022	0.022	---	---	0.181	1980
1981	---	---	0.013	0.080	0.178	0.384	0.318	0.213	0.078	0.124	---	---	0.171	1981
1982	---	---	0.081	0.615	0.330	0.072	0.892	0.088	0.011	0.138	---	---	0.279	1982
1983	---	---	0	2.71	3.28	1.53	1.51	0.138	0.001	0.020	---	---	1.14	1983
1984	---	---	0.178	0.471	1.23	4.77	0.826	0.038	0.127	0.823	---	---	1.02	1984
1985	---	---	0.186	3.61	1.19	1.00	0.175	1.83	0.872	0.848	---	---	1.13	1985
1986	---	---	1.38	2.81	4.42	0.388	0.748	0.188	0.340	0.482	---	---	1.32	1986
1987	---	---	0.186	4.93	0.458	0.188	0.047	0.022	0.025	0.140	---	---	0.740	1987
1988	---	---	0.093	2.98	7.08	0.337	0.038	0.018	0.001	0.004	---	---	1.22	1988
MEAN	---	---	0.085	1.88	2.01	1.32	0.385	0.132	0.187	0.228	---	---	0.709	MEAN

LOCATION - LAT 51 31 20 N DRAINAGE AREA, 280 km²
LONG 100 22 10 W REGULATED

FORK RIVER NEAR ETHELBERT - STATION NO. 05LJ015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	17.2 R ON JUN 2	0 B ON APR 1 *	---	1954
1955	---	18.5 ON MAY 4	0 ON JUL 23	---	1955
1956	---	7.28 ON MAY 9	0 ON AUG 4	20 200	1956
1957	---	9.40 ON APR 25	0 ON JUL 8	13 900	1957
1958	---	1.13 ON MAR 31	0 ON MAR 1	2 960	1958
1959	---	7.84 ON JUN 26	0 ON MAR 1	12 300	1959
1960	---	12.2 ON APR 11	0 B ON MAR 1	21 600	1960
1961	---	0.0428 ON APR 20	0 B ON MAR 1	200	1961
1962	---	4.11 ON APR 18	0 ON MAR 1	1 770	1962
1963	---	4.02 ON APR 9	0 ON MAR 1	8 500	1963
1964	---	2.20 ON MAY 8	0 ON MAR 1	3 090	1964
1965	---	2.74 ON AUG 2	0 ON MAR 1	10 600	1965
1966	---	12.8 B ON APR 1	0 B ON MAR 1	18 800	1966
1967	---	8.78 ON APR 27	0 B ON MAR 1	10 400	1967
1968	---	0.616 ON MAR 27	0 E ON MAR 1	1 240	1968
1969	---	7.83 ON APR 13	0 B ON MAR 1	13 100	1969
1970	---	14.5 ON APR 26	0 ON SEP 11	37 000	1970
1971	---	16.5 B ON APR 11	0 ON AUG 27	16 300	1971
1972	---	8.55 B ON APR 18	0 B ON MAR 1	10 700	1972
1973	---	1.82 ON JUN 20	0 B ON MAR 1	4 980	1973
1974	---	43.8 B ON APR 19	0 B ON MAR 1	37 500	1974
1975	---	17.6 ON JUN 10	0 B ON MAR 1	29 300	1975
1976	---	64.7 ON JUN 13 *	0 ON AUG 24	38 700	1976
1977	---	0.874 ON MAY 6	0 B ON MAR 1	1 380	1977
1978	---	0.960 ON MAY 9	0 ON AUG 8	3 530	1978
1979	---	17.9 B ON APR 23	0 B ON MAR 1	23 200	1979
1980	---	2.98 B ON APR 6	0 B ON MAR 1	4 040	1980
1981	---	2.86 ON JUL 2	0 B ON MAR 1	2 820	1981
1982	---	5.14 ON JUL 17	0 B ON MAR 1	5 810	1982
1983	---	16.3 B ON APR 24	0 B ON MAR 1	24 200	1983
1984	84.6 AT 11:04 CST ON JUN 23 *	41.0 ON JUN 23	0 B ON MAR 1	21 700	1984
1985	9.73 AT 09:34 CST ON AUG 14	8.45 ON AUG 14	0.021B ON MAR 16	24 000	1985
1986	15.6 AT 15:04 CST ON MAY 10	14.7 ON MAY 10	0 B ON MAR 1	27 800	1986
1987	32.8 AT 21:39 CST ON APR 5	18.3 ON APR 6	0 ON SEP 6	15 700	1987
1988	48.2 AT 22:51 CST ON MAY 2	36.9 ON MAY 3	0 B ON MAR 1	28 000	1988
				15 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1986

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	0.019	5.54	0.787	0.348	0.103	0.031	0	0	0	---	0.828	1956
1957	---	---	0.338	0.355	0.143	0.101	0.015	0	0.006	0	---	---	0.106	1957
1958	---	---	0.556	1.53	0.074	0.002	0	0	0	0	---	---	0.273	1958
1959	---	---	0.073	0.032	0		0	0	0	0	---	---	0.013	1959
1960	---	---	0.043	1.80	0.128	0.025	0.001	0	0	0	---	---	0.257	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0	0	0	0	0	0	0	0	---	---	0	1963
1964	---	---	0	1.87	1.86	0.135	0.105	0.016	0.013	0.037	---	---	0.502	1964
1965	---	---	0	1.19	0.291	0.185	0.072	0.018	0.040	0.058	---	---	0.228	1965
1966	---	---	0.424	1.88	0.441	0.282	0.087	0.005	0.031	0.006	---	---	0.391	1966
1967	---	---	0.027	0.111	0.103	0.012	0	0	0	0	---	---	0.032	1967
1968	---	---	0.016	0.016	0.007	0	0.001	0.004	0.013	0.012	---	---	0.009	1968
1969	---	---	0	11.8	0.473	0.043	1.04	0.266	0.172	0.126	---	---	1.72	1969
1970	---	---	0	3.13	4.37	0.258	0.088	0.051	0.034	0.002	---	---	0.880	1970
1971	---	---	0.011	0.130	0.087	0.524	0.282	0.008	0.085	0.013	---	---	0.136	1971
1972	---	---	2.23	2.65	0.412	0.262	0.013	0.081	0.147	0.008	---	---	0.721	1972
1973	---	---	0.031	0.026	0.046	0.170	0.018	0.001	0.008	0.018	---	---	0.038	1973
1974	---	---	0	11.6	2.21	0.923	0.228	0.043	0	0.028	---	---	1.85	1974
1975	---	---	0.001	5.62	5.13	2.13	0.383	0.023	1.44	1.51	---	---	2.01	1975
1976	---	---	0.429	32.1	1.41	0.494	0.068	0.005	0.102	0.074	---	---	4.28	1976
1977	---	---	0.030	0.013	0.013	0	0	0	0	0	---	---	0.007	1977
1978	---	---	0.003	0.062	0.014	0.003	0	0	0	0	---	---	0.010	1978
1979	---	---	0	2.20	1.48	0.150	0.012	0	0	0	---	---	0.476	1979
1980	---	---	0	0.028	0	0	0	0	0	0	---	---	0.003	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	1.42	0.130	0.001	0	0	0	0	---	---	0.181	1982
1983	---	---	0.008	2.70	0.768	0.076	0.072	0	0	0	---	---	0.447	1983
1984	---	---	0.018	0.044	0.050	0.002	0	0	0	0	---	---	0.014	1984
1985	---	---	0.335	0.847	0.081	0.001	0	1.09	1.07	0.430	---	---	0.498	1985
1986	---	---	1.65	0.864	1.81	0.104	0.284	0.182	0.071	0.020	---	---	0.811	1986
1987	---	---	0.824	3.33	0.321	0.104	0.007	0.004	0.001	0	---	---	0.566	1987
1988	---	---	0	0.001	0.002	0	0	0	0	0	---	---	0	1988
MEAN	---	0.001	0.210	3.83	0.878	0.189	0.086	0.054	0.098	0.073	0	---	0.521	MEAN

LOCATION - LAT 49 05 45 N
LONG 101 11 00 W
DRAINAGE AREA, 1 180 km^2
REGULATED SINCE 1962

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.006 AND 0 m^3/s OCCURRED IN FEBRUARY

GAINSBOROUGH CREEK NEAR LYLETON - STATION NO. 08NF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1956	---		20.3	ON APR 18	0	B ON MAR 1 *	17 600	1956
1957	---		0.8788	ON MAR 28	0	B ON MAR 1	2 250	1957
1958	---		9.57	ON APR 4	0	B ON MAR 1	5 780	1958
1959	---		1.02 B	ON MAR 27	0	B ON MAR 1	278	1959
1960	---		5.99	ON APR 5	0	B ON MAR 1	5 448	1960
1961	---		0	ON MAR 1	0	ON MAR 1	0	1961
1962	---		0	ON MAR 1	0	ON MAR 1	0	1962
1963	---		0	ON MAR 1	0	ON MAR 1	0	1963
1964	13.9 AT 02:00 CST ON MAY 7		10.3	ON MAY 9	0	ON MAR 1	10 600	1964
1965	7.96 AT 14:15 CST ON APR 17		4.81	ON APR 17	0	B ON MAR 1	4 650	1965
1966	---		5.10 B	ON APR 8	0	B ON MAR 1	5 270	1966
1967	---		0.311A	ON MAY 11	0	B ON MAR 1	868	1967
1968	---		0.0578	ON MAR 20	0	B ON MAR 1	188	1968
1969	46.2 AT 18:40 CST ON APR 16		43.8	ON APR 16	0	B ON MAR 1	36 500	1969
1970	18.5 AT 11:15 CST ON MAY 1		18.0	ON MAY 1	0	B ON MAR 1	21 000	1970
1971	---		2.27	ON JUN 14	0	B ON MAR 1	2 880	1971
1972	---		7.11 B	ON MAR 27	0	B ON MAR 1	15 300	1972
1973	2.82 AT 03:52 CST ON JUN 3		1.39	ON JUN 3	0	B ON MAR 1	825	1973
1974	53.8 AT 17:00 CST ON APR 17		45.3 A	ON APR 17	0	B ON MAR 1	38 200	1974
1975	28.4 AT 10:17 CST ON APR 30		28.3	ON APR 30	0.0018	ON MAR 1	42 800	1975
1976	94.3 AT 00:08 CST ON APR 12 *		87.2	ON APR 12 *	0.001	ON SEP 9	80 200	1976
1977	---		0.1068	ON MAR 10	0	B ON MAR 1	183	1977
1978	---		0.1228	ON APR 6	0	B ON MAR 1	212	1978
1979	15.4 AT 03:34 CST ON APR 27		12.5	ON APR 27	0	B ON MAR 1	10 100	1979
1980	---		0.0908	ON APR 16	0	B ON MAR 1	72.4	1980
1981	---		0.0029	ON MAR 1	0	B ON MAR 6	0.52	1981
1982	4.83 AT 18:58 CST ON APR 15		4.38	ON APR 21	0	B ON MAR 1	4 040	1982
1983	9.03 AT 14:51 CST ON APR 24		8.89	ON APR 25	0	B ON MAR 20	9 480	1983
1984	0.216 AT 20:16 CST ON APR 13		0.186	ON APR 14	0	B ON MAR 1	303	1984
1985	9.06 AT 07:16 CST ON AUG 26		8.26	ON AUG 26	0	B ON MAR 1	10 500	1985
1986	7.21 B AT 18:23 CST ON MAR 23		5.84 B	ON MAR 23	0.004	ON JUL 4	12 800	1986
1987	11.3 AT 01:44 CST ON APR 7		10.6	ON APR 7	0	ON AUG 23	12 000	1987
1988	0.007 AT 17:50 CST ON MAY 4		0.006	ON MAY 5	0	B ON MAR 1	8.42	1988
						RECORDED FOR THE PERIOD OF RECORD	11 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 08NF003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	---	---	---	---	---	0.019	---	---	---	1935
1936	---	---	---	---	0.287	0.020	---	---	---	---	---	---	---	1936
1943	---	---	0	4.88	0.377	0.480	0.141	0.004	0	0	---	---	0.726	1943
1944	---	---	0	0.008	0.003	0.202	0.224	0.028	0.025	0.007	---	---	0.062	1944
1945	---	---	0.091	0.129	0.020	0.089	0.073	0.006	0	0	---	---	0.047	1945
1946	---	---	0.722	2.83	0.100	0.026	0.005	0	0	0	---	---	0.455	1946
1947	---	---	0	2.15	0.758	1.03	1.40	0.080	0.001	0	---	---	0.888	1947
1948	---	---	0	5.18	3.39	0.329	0.047	0.077	0.012	0.007	---	---	1.48	1948
1949	---	---	0	5.05	0.326	1.84	0.138	0.047	0.004	0	---	---	0.884	1949
1950	---	---	0.021	3.91	2.70	0.601	1.17	3.28	0.716	0.161	---	---	1.67	1950
1951	---	---	0	5.65	7.36	0.335	0.064	0.036	0.010	0	---	---	2.06	1951
1952	---	---	0.027	1.80	0.077	0	0.016	0	0	0	---	---	0.211	1952
1953	---	---	0.041	0.728	0.193	0.071	0.092	0.013	0	0	---	---	0.141	1953
1954	---	---	0	0.026	0	0.703	2.21	0.170	0.122	0.140	0.078	---	0.423	1954
1955	---	---	0.015	7.48	2.32	0.389	0.038	0.027	0	0	---	---	1.27	1955
MEAN	---	---	0.071	3.32	1.28	0.421	0.432	0.268	0.068	0.024	0.078	---	0.770	MEAN

LOCATION - LAT 49 09 50 N, LONG 101 02 48 W DRAINAGE AREA, 1 480 km^2, NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945

GAINSBOROUGH CREEK NEAR MELITA - STATION NO. 05NF003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1935	---	---	---	---	1935
1936	---	---	---	---	1936
1943	---	20.1 ON APR 8	0B ON MAR 1 *	15 800	1943
1944	---	0.934 ON JUL 1	0B ON MAR 1	1 310	1944
1945	---	0.612E ON MAR 26	0E ON MAR 1	898	1945
1946	---	14.0 B ON APR 2	0B ON MAR 1	9 820	1946
1947	---	12.0 E ON JUN 29	0B ON MAR 1	14 200	1947
1948	---	36.8 ON APR 25 *	0B ON MAR 1	31 500	1948
1949	---	36.2 ON APR 12	0B ON MAR 1	18 700	1949
1950	---	11.2 ON APR 21	0B ON MAR 1	33 100	1950
1951	---	28.6 ON MAY 6	0B ON MAR 1	43 300	1951
1952	---	7.45 ON APR 10	0B ON MAR 1	4 480	1952
1953	---	3.31 ON APR 9	0B ON MAR 1	2 580	1953
1954	---	3.43 ON JUL 10	0B ON MAR 1	8 850	1954
1955	---	27.2 B ON APR 9	0B ON MAR 1	26 800	1955
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		16 300	MEAN

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.057	0.425	5.45	1.29	0.079	E.044	0	0	---	---	0.822	1967
1968	---	---	0.363	1.28	0.840	0.815	0.089	E.841	0.585	0.145	---	---	0.507	1968
1969	---	---	0.104	3.86	1.07	0.782	2.17	E.414	0.293	1.83	---	---	1.27	1969
1970	---	---	0.207	4.36	7.40	3.26	2.80	1.01	0.354	0.585	---	---	2.44	1970
1971	---	---	0.221	7.00	1.47	3.63	0.524	0.262	0.006	0.418	---	---	1.85	1971
1972	---	---	0.088	4.23	2.91	0.480	0.212	0.051	0	0.083	---	---	0.997	1972
1973	---	---	0.028	0.585	0.430	2.06	0.871	0.031	0.283	0.243	---	---	0.586	1973
1974	---	---	0.020	8.76	10.1	2.29	0.218	0.105	0.456	0.421	---	---	2.84	1974
1975	---	---	0.125	3.03	4.47	3.44	0.273	0.085	0.744	0.834	---	---	1.81	1975
1976	---	---	E.123	7.41	1.56	5.88	0.770	0.071	0.018	0.052	---	---	1.88	1976
1977	---	---	0.071	0.906	0.027	0.144	0.103	0.106	0.701	0.617	---	---	0.445	1977
1978	---	---	E.074	1.62	1.05	0.803	0.108	0.001	0.106	0.173	---	---	0.511	1978
1979	---	---	0.047	4.34	8.52	3.85	0.108	0.006	0.020	0.107	---	---	2.22	1979
1980	---	---	0.003	1.55	0.348	0.010	0.043	0.881	0.091	0.148	---	---	0.396	1980
1981	---	---	E.058	0.807	0.780	1.40	0.228	0.084	E.018	0.243	---	---	0.448	1981
1982	---	---	E	1.08	0.942	0.498	2.83	0.457	0.004	0.770	---	---	0.788	1982
1983	---	---	0.034	5.19	6.28	1.88	1.31	0.085	E	0.078	---	---	1.85	1983
1984	---	---	0.228	1.12	1.92	8.81	0.462	0.002	0.068	0.381	---	---	1.33	1984
1985	---	---	E.180	5.24	0.580	0.448	0.101	1.28	0.423	0.648	---	---	1.08	1985
1986	---	---	1.02	5.18	5.36	0.387	0.432	0.172	0.222	E.360	---	---	1.84	1986
1987	---	---	0.148	3.50	0.490	0.384	0.130	0.023	0.018	0.198	---	---	0.801	1987
1988	---	---	E.027	5.90	13.5	0.470	0.041	0.002	0.005	0	---	---	2.46	1988
MEAN	---	---	E.147	3.42	3.53	1.83	0.686	0.277	0.171	E.360	---	---	1.26	MEAN

LOCATION - LAT 51 51 05 N DRAINAGE AREA, 440 km^2
LONG 100 14 55 W NATURAL FLOW

GARLAND RIVER NEAR DUCK RIVER - STATION NO. 05LG006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	11.4 AT 13:45 CST ON MAY 10	11.3 ON MAY 10	0 ON JUL 28 *	18 500	1967
1968	3.82 AT 08:30 CST ON AUG 22	3.71 ON AUG 22	0.001 ON SEP 17	10 700	1968
1969	---	10.2 ON APR 18	0.001 ON SEP 6	27 000	1969
1970	---	14.3 ON APR 26	0.042 ON SEP 20	91 700	1970
1971	21.8 AT 18:00 CST ON APR 11	18.1 A ON APR 11	0 ON SEP 23	35 808	1971
1972	13.7 B AT 10:10 CST ON APR 18	12.1 B ON APR 18	0 ON AUG 31	21 100	1972
1973	6.17 AT 00:01 CST ON JUN 23	5.85 ON JUN 22	0 B ON MAR 1	12 400	1973
1974	---	32.6 E ON APR 21	0.014 ON AUG 10	53 800	1974
1975	10.1 AT 14:57 CST ON MAY 1	8.91 ON MAY 1	0 ON AUG 17	34 300	1975
1976	20.0 AT 11:15 CST ON APR 9	18.7 ON APR 8	0 ON OCT 8	41 300	1976
1977	3.43 AT 11:15 CST ON SEP 28	3.37 ON SEP 28	0.0148 ON MAR 1	E 420	1977
1978	3.88 AT 08:30 CST ON APR 19	2.88 ON APR 27	0 ON AUG 5	10 800	1978
1979	18.1 AT 00:38 CST ON APR 25	17.1 ON APR 24	0 ON AUG 15	47 000	1979
1980	3.03 AT 21:00 CST ON APR 18	2.86 ON APR 18	0 B ON MAR 1	8 380	1980
1981	3.51 AT 02:26 CST ON JUN 18	3.34 ON JUN 18	0 B ON MAR 1	8 500	1981
1982	11.2 AT 21:05 CST ON JUL 20	10.8 ON JUL 20	0 B ON MAR 1	16 900	1982
1983	30.0 AT 14:00 CST ON APR 25	28.5 A ON APR 25	0 ON SEP 1	38 200	1983
1984	35.5 AT 09:25 CST ON JUN 25	34.0 ON JUN 25	0 ON AUG 10	28 200	1984
1985	9.84 AT 21:21 CST ON AUG 16	9.05 ON AUG 16	0.002 ON AUG 8	23 000	1985
1986	14.8 B AT 02:54 CST ON APR 2	14.2 B ON APR 1	0 ON SEP 4	34 700	1986
1987	13.1 AT 20:00 CST ON APR 8	10.8 ON APR 8	0 ON AUG 28	12 700	1987
1988	70.5 AT 00:19 CST ON MAY 4 *	69.1 ON MAY 4 *	0 ON JUL 27	51 700	1988
	A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27 200	MEAN

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	0.169	0.111	0.070	0.144	0.091	0.238	0.185	---	---	---	1958
1959	---	---	0.170	0.468	0.502	1.22	0.182	0.041	0.179	0.408	---	---	0.382	1959
1960	---	---	0.024	0.817	2.05	0.624	0.075	0.037	0.008	0.022	---	---	0.457	1960
1961	---	---	0.003	0.100	0.131	0.008	0.005	0	0	0.025	---	---	0.034	1961
1962	---	---	0.025	0.645	0.138	0.099	0.033	0.035	0.062	0.074	0.071	---	0.137	1962
1963	---	---	0.048	1.08	0.598	0.527	0.105	0.019	0.038	0.055	---	---	0.311	1963
1964	---	---	0.014	0.732	0.488	0.041	0.011	0.018	0.031	0.048	---	---	0.188	1964
1965	---	---	0.004	0.778	1.10	0.342	0.254	0.232	0.821	0.295	---	---	0.476	1965
1966	---	---	0.104	1.00	1.32	1.02	0.181	0.133	0.018	0.085	---	---	0.475	1966
1967	---	---	0.043	0.383	1.87	0.407	0.088	0.120	0.085	0.072	---	---	0.380	1967
1968	---	---	0.235	0.475	0.348	0.223	0.206	0.308	0.104	0.110	---	---	0.251	1968
1969	---	---	0.071	1.21	0.613	0.956	1.39	0.106	0.185	0.850	---	---	0.873	1969
1970	---	---	0.059	0.884	2.94	1.47	1.10	0.244	0.218	0.686	---	---	0.824	1970
1971	---	---	0.052	1.13	0.361	0.792	0.214	0.056	0.028	0.255	---	---	0.358	1971
1972	---	---	0.068	1.22	0.873	0.126	0.088	0.031	0.016	0.053	---	---	0.318	1972
1973	---	---	0.059	0.276	0.432	1.05	0.241	0.037	0.316	0.321	---	---	0.339	1973
1974	---	---	0.045	1.92	2.97	0.709	0.106	0.061	0.308	0.226	---	---	0.793	1974
1975	---	---	0.055	1.30	1.70	1.29	0.082	0.070	0.389	0.295	---	---	0.643	1975
1976	---	---	0.057	2.00	0.482	1.26	0.108	0.044	0.029	0.060	---	---	0.502	1976
1977	---	---	0.048	0.354	0.417	0.067	0.075	0.072	0.471	0.199	---	---	0.214	1977
MEAN	---	---	0.084	0.837	0.976	0.617	0.230	0.086	0.177	0.215	0.071	---	0.413	MEAN

LOCATION - LAT 51 40 20 N LONG 100 28 30 W DRAINAGE AREA, 103 km² NATURAL FLOW

GARLAND RIVER NEAR GARLAND - STATION NO. 05LG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	1.13 AT 08:00 CST ON AUG 30	1.08 ON AUG 30	0 E ON AUG 4 *	---	1958
1959	8.06 AT 18:00 CST ON JUN 28	8.10 ON JUN 28	0.028 ON JUL 26	5 260	1959
1960	5.77 AT 08:00 CST ON MAY 27	5.07 ON MAY 27	0 B ON MAR 1	5 670	1960
1961	---	0.272A ON APR 22	0 B ON MAR 2	717	1961
1962	7.48 AT 04:00 CST ON APR 21	3.60 ON APR 20	0 B ON MAR 1	2 810	1962
1963	7.65B AT 11:00 CST ON APR 8	5.61 RB ON APR 8	0 B ON MAR 1	6 580	1963
1964	3.85 AT 10:10 CST ON MAY 8	2.86 R ON MAY 8	0.003 ON JUL 27	3 580	1964
1965	6.40 AT 01:00 CST ON MAY 7	5.82 ON MAY 7	0.0038 ON MAR 1	10 100	1965
1966	8.75 AT 02:30 CST ON MAY 5	5.27 ON MAY 5	0.006 ON SEP 22	10 100	1966
1967	8.24B AT 08:00 CST ON MAY 7	7.14 B ON MAY 7	0 ON SEP 6	5 030	1967
1968	---	1.46 B ON MAR 29	0.024 ON SEP 12	5 310	1968
1969	3.78B AT 08:43 CST ON APR 13	3.60 B ON APR 12	0 ON SEP 14	14 200	1969
1970	8.07 AT 07:11 CST ON MAY 7	6.94 ON MAY 7	0.004 ON AUG 22	10 500	1970
1971	5.75 AT 17:20 CST ON JUN 6	4.13 ON JUN 6	0.014 ON AUG 30	7 570	1971
1972	6.12 AT 05:20 CST ON APR 22	4.67 ON APR 22	0 ON SEP 3	6 730	1972
1973	7.76 AT 03:37 CST ON JUN 20	6.62 ON JUN 20	0 ON AUG 15	7 170	1973
1974	11.8 AT 01:28 CST ON MAY 22 *	10.3 ON MAY 22 *	0.003 ON AUG 11	16 800	1974
1975	8.89 AT 23:07 CST ON APR 28	6.34 ON APR 28	0.583 ON JUL 29	13 600	1975
1976	8.81 AT 07:30 CST ON APR 9	7.42 ON APR 9	0.014 ON AUG 24	10 600	1976
1977	3.54 AT 10:52 CST ON SEP 26	3.34 ON SEP 26	0.021 ON JUL 4	4 640	1977
				6 740	MEAN

A - MANUAL GAUGE [SEE REFERENCE INDEX] B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1988

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	3.78	5.30	10.3	3.32	0.314	1.84	2.12	0.630	---	---	1954
1955	---	---	---	5.26	5.21	3.72	0.311	0.037	0.017	0.145	---	---	---	1955
1956	---	---	0	0.767	5.18	2.22	2.02	0.277	0.260	0.441	---	---	1.42	1956
1957	---	---	0	4.00	3.27	0.387	0	0	0	0	---	---	0.952	1957
1958	---	---	0.100	0.413	0.308	0.104	0.226	0.101	0.248	0.238	---	---	0.217	1958
1959	---	---	---	1.30	1.06	6.66	2.61	0.137	0.884	2.21	---	---	---	1959
1960	---	---	0	5.86	7.91	3.99	0.256	0.074	0	0	---	---	2.25	1960
1961	---	---	0.014	0.336	0.783	0.136	0	0	0	0	---	---	0.159	1961
1963	---	---	0.089	1.26	1.70	1.79	0.507	0.039	0	0.005	---	---	0.673	1963
1964	---	---	0.057	0.731	1.16	0.166	0.006	0	0	0.032	---	---	0.271	1964
1965	---	---	0	1.36	2.60	1.02	0.275	0.456	1.33	0.504	---	---	0.888	1965
1966	---	---	0.050	4.46	3.69	2.36	0.609	0.136	0.062	0.033	---	---	1.44	1966
MEAN	---	---	0.036	2.47	3.20	2.76	0.654	0.131	0.396	0.477	0.630	---	0.936	MEAN

LOCATION - LAT 51 48 20 N LONG 100 18 18 W DRAINAGE AREA, 403 km² NATURAL FLOW

GARLAND RIVER NEAR PULP RIVER - STATION NO. 05LG002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	19.5 ON MAY 30	0B ON APR 1 *	---	1954
1955	---	15.0 ON MAY 8	0 ON AUG 21	---	1955
1956	---	7.22 ON MAY 11	0B ON MAR 1	30 000	1956
1957	---	13.3 ON APR 28	0B ON MAR 1	20 200	1957
1958	---	1.13 ON APR 4	0B ON MAR 1	4 580	1958
1959	---	20.9 ON JUN 30 *	---	---	1959
1960	---	19.2 ON MAY 30	0B ON MAR 1	47 600	1960
1961	---	8.67E ON MAY 31	0B ON MAR 1	3 370	1961
1963	---	7.42 ON APR 11	0B ON MAR 1	14 300	1963
1964	---	3.77 ON MAY 10	0 ON JUL 15	5 730	1964
1965	---	7.33 ON MAY 8	0B ON MAR 1	20 500	1965
1966	---	10.2 B ON APR 6	0 ON SEP 24	30 600	1966
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		19 700	MEAN

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 05FA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	23.6	17.5	13.4	10.3	---	---	70.3	42.8	37.5	50.1	40.5	28.1	---	1979
1980	14.3	12.6	12.2	15.1	25.2	43.6	70.1	105	159	105	74.6	39.5	58.6	1980
1981	21.0	17.2	15.2	14.0	64.6	88.4	39.2	20.5	13.1	10.5	8.81	9.03	26.3	1981
1982	8.82	8.83	8.08	9.66	79.3	115	70.6	---	---	---	53.0	32.4	---	1982
1983	24.1	20.0	16.6	14.2	36.3	109	86.1	64.4	79.7	67.3	62.1	35.7	51.6	1983
1984	26.1	20.5	14.1	39.2	81.5	78.3	44.7	24.1	18.5	15.9	11.4	11.2	32.5	1984
1985	12.6	10.0	10.5	18.6	109	74.4	58.7	45.5	24.6	13.8	10.2	8.74	34.0	1985
1986	7.31	6.75	6.09	11.7	142	159	154	101	62.7	39.3	23.7	17.4	61.5	1986
1987	14.4	13.3	13.2	25.3	73.1	58.8	46.5	34.1	30.9	27.9	26.0	17.9	33.6	1987
1988	17.6	15.9	13.1	11.1	84.9	97.3	78.2	77.4	54.2	35.5	23.9	17.5	42.4	1988
MEAN	17.2	14.3	12.6	17.1	75.3	89.3	70.9	67.3	54.5	44.0	33.8	21.5	42.2	MEAN

LOCATION - LAT 57 19 08 N DRAINAGE AREA, 5 960 km^2
LONG 97 31 24 W NATURAL FLOW

GAUER RIVER BELOW THORSTEINSON LAKE - STATION NO. 05FA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	104 AT 23:60 CST ON JUN 28	98.0 ON JUN 30	8.508 ON APR 18	---	1979
1980	207 AT 22:14 CST ON SEP 8	201 ON SEP 7	11.6 B ON APR 18	1 780 000	1980
1981	92.1 AT 21:00 CST ON MAY 18	92.0 ON MAY 14	8.43 ON OCT 12	798 000	1981
1982	129 AT 04:54 CST ON JUN 9	128 ON JUN 10	8.808 ON JAN 1	---	1982
1983	132 AT 00:10 CST ON JUN 6	123 ON JUN 6	12.6 B ON MAY 11	1 630 000	1983
1984	97.3 AT 17:40 CST ON MAY 28	97.3 ON MAY 28	8.478 ON APR 18	1 030 000	1984
1985	134 AT 03:00 CST ON MAY 18	133 ON MAY 20	8.348 ON DEC 26	1 070 000	1985
1986	226 AT 10:30 CST ON MAY 31 *	222 ON MAY 31 *	8.558 ON JAN 29 *	1 940 000	1986
1987	76.5 AT 08:42 CST ON MAY 18	76.7 ON MAY 10	13.2 B ON FEB 12	1 080 000	1987
1988	106 AT 14:00 CST ON JUN 10	103 ON JUN 10	10.2 B ON APR 19	1 240 000	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 330 000	MEAN

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05OA015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	5.33	1.78	0.104	---	---	---	---	---	---	1.78	1979
1980	---	---	0	0.355	0.003	0	---	---	---	---	---	---	0.088	1980
1981	---	0.235	0.071	0.029	0.026	0.030	---	---	---	---	---	---	0.038	1981
1982	---	---	0.082	2.80	0.286	0.185	---	---	---	---	---	---	0.649	1982
1983	---	---	0.180	1.78	0.253	0.050	0.103	---	---	---	---	---	0.572	1983
1984	---	---	0.243	0.242	0.304	0.015	---	---	---	---	---	---	0.202	1984
1985	---	---	0.787	0.179	0.013	0.002	---	---	---	---	---	---	0.250	1985
1986	---	---	0.512	0.328	0.194	0.014	---	---	---	---	---	---	0.268	1986
1987	---	---	1.01	1.51	0.015	0	---	---	---	---	---	---	0.631	1987
1988	---	---	0	0.006	0	0	---	---	---	---	---	---	0.002	1988
MEAN	---	0.235	0.301	1.27	0.289	0.042	0.103	---	---	---	---	---	0.471	MEAN

LOCATION - LAT 49 04 40 N DRAINAGE AREA, 220 km^2
LONG 59 21 00 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.19 AND 0 M3/ OCCURRED IN FEBRUARY

GIMBY CREEK NEAR CARTWRIGHT - STATION NO. 05DA015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	---	43.4 B ON APR 22 *	0 B ON MAR 1 *	18 800	1979
1980	5.66 AT 17:29 CST ON APR 5	2.42 ON APR 8	0 B ON MAR 1	928	1980
1981	---	0.2168 ON MAR 20	0.011A ON APR 20	415	1981
1982	11.2 B AT 16:15 CST ON APR 13 *	10.4 B ON APR 13	0 B ON MAR 1	8 950	1982
1983	---	4.85 B ON APR 2	0 B ON MAR 1	8 030	1983
1984	---	1.46 B ON MAR 28	0 B ON MAR 1	2 130	1984
1985	8.018 AT 20:00 CST ON MAR 19	4.58 B ON MAR 19	0 B ON MAR 1	2 830	1985
1986	---	2.53 B ON MAR 17	0 B ON MAR 1	3 050	1986
1987	---	8.47 B ON MAR 27	0 B ON MAR 1	5 650	1987
1988	---	0.039A ON APR 3	0 B ON MAR 1	17.1	1988
				4 970	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GODS RIVER BELOW ALLEN RAPIDS - STATION NO. 04AC005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	---	91.5	94.4	88.7	98.4	111	114	115	115	118	121	---	1933
1934	123	127	126	110	118	193	314	338	303	267	243	227	208	1934
1935	203	177	155	143	144	151	142	122	116	111	---	---	---	1935
1936	---	---	---	117	119	153	204	213	204	178	161	150	---	1936
1937	140	128	118	108	132	203	288	297	266	242	225	210	197	1937
1938	197	186	165	155	184	201	250	271	247	210	183	141	196	1938
1939	126	115	104	91.5	94.4	123	183	221	213	181	161	158	148	1939
1940	152	140	128	118	120	151	158	153	136	118	105	101	132	1940
1941	95.7	83.5	91.4	85.8	125	173	197	201	176	159	141	136	141	1941
1942	135	134	133	125	114	127	146	161	186	214	214	200	159	1942
1943	183	174	160	148	158	176	192	188	180	176	171	166	172	1943
1944	158	144	129	117	114	107	111	117	117	113	114	116	121	1944
1947	---	---	---	---	---	---	---	---	---	311	281	263	---	1947
1948	222	194	166	152	141	128	125	118	99.0	86.7	78.1	73.9	132	1948
1949	71.9	70.3	68.8	67.8	72.0	78.2	94.5	103	115	167	246	302	122	1949
1950	267	244	205	179	184	236	284	307	295	264	212	201	241	1950
1951	188	171	155	142	157	178	196	206	224	264	276	258	202	1951
1952	223	189	164	146	152	189	258	338	387	375	338	320	257	1952
1953	278	233	197	173	169	173	259	294	278	223	198	180	222	1953
1954	173	158	146	135	130	140	164	172	159	143	134	130	148	1954
1955	131	126	121	121	147	198	287	337	319	287	265	233	213	1955
1956	198	177	163	154	151	164	182	178	160	141	132	123	160	1956
1957	117	112	108	106	113	130	160	176	167	150	136	122	133	1957
1958	117	113	107	104	106	115	138	172	172	170	168	166	137	1958
1959	155	148	140	137	161	276	404	410	359	332	309	277	260	1959
1960	243	206	183	147	162	178	195	191	165	143	131	119	169	1960
1961	111	104	97.7	91.3	97.7	103	98.4	94.7	89.4	81.2	80.8	83.8	82.6	1961
1962	87.1	82.6	72.6	83.7	88.5	105	118	122	131	131	125	115	101	1962
1963	103	101	107	113	130	171	210	208	188	174	158	148	161	1963
1964	138	128	118	116	126	148	167	171	159	140	126	119	138	1964
1965	112	107	102	101	114	163	218	252	247	238	224	205	174	1965
1966	181	169	143	132	136	178	237	254	256	229	207	191	193	1966
1967	174	155	133	128	137	234	352	377	324	258	213	186	223	1967
1968	165	147	133	120	124	163	220	261	271	260	245	229	185	1968
1969	210	190	167	149	138	135	136	134	137	159	198	230	165	1969
1970	231	215	193	168	162	179	200	202	188	181	185	187	192	1970
1971	201	188	174	160	175	210	233	235	214	177	167	147	189	1971
1972	138	126	118	103	118	145	160	162	145	130	119	112	132	1972
1973	107	101	96.4	94.7	102	134	175	185	179	176	185	188	145	1973
1974	183	166	155	144	148	176	189	208	189	167	153	142	169	1974
1975	135	125	116	111	115	129	145	169	188	198	195	186	151	1975
1976	173	158	141	126	118	112	109	106	108	99.4	90.8	84.2	118	1976
1977	80.8	78.0	76.1	75.0	80.3	82.5	80.7	77.7	83.3	89.4	89.9	88.3	81.8	1977
1978	88.1	88.4	82.3	81.4	94.1	109	115	122	123	140	161	158	114	1978
1979	157	153	151	143	154	221	289	317	278	244	225	201	212	1979
1980	185	174	162	146	146	145	137	127	117	114	114	116	140	1980
1981	114	109	102	95.2	98.8	102	110	111	106	107	118	128	108	1981
1982	130	126	119	112	120	134	146	162	174	171	164	156	144	1982
1983	162	153	145	133	144	205	247	253	233	204	180	158	185	1983
1984	140	126	119	117	125	139	155	155	141	128	116	106	131	1984
1985	97.9	92.0	88.6	90.1	107	150	227	267	265	241	218	193	170	1985
1986	169	151	135	124	154	201	218	213	184	162	149	139	167	1986
1987	130	121	111	108	118	127	---	---	147	143	137	131	---	1987
1988	124	118	110	102	108	128	128	119	104	89.5	79.8	72.2	107	1988
MEAN	155	143	130	122	128	156	190	202	191	181	172	164	162	MEAN

LOCATION - LAT 55 01 35 N LONG 93 50 10 W DRAINAGE AREA, 25 900 km^2 NATURAL FLOW

GODS RIVER BELOW ALLEN RAPIDS - STATION NO. 04AC005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	---	---	---	1933
1934	---	388 ON AUG 4	106 ON APR 28	8 570 000	1934
1935	---	218 ON JAN 1	109 ON OCT 11	---	1935
1936	---	---	---	---	1936
1937	---	303 ON JUL 28	105 ON APR 23	8 210 000	1937
1938	---	277 ON AUG 5	134 ON DEC 31	8 180 000	1938
1939	---	227 ON AUG 17	88.4 ON APR 29	4 670 000	1939
1940	---	188 ON JUN 23	89.1 ON DEC 30	4 180 000	1940
1941	---	210 ON AUG 4	80.6 ON APR 6	4 440 000	1941
1942	---	223 ON OCT 21	111 ON MAY 19	5 010 000	1942
1943	---	195 ON JUL 20	144 ON APR 20	5 440 000	1943
1944	---	181 ON JAN 1	105 ON JUN 10	3 840 000	1944
1947	---	---	---	---	1947
1948	---	238 ON JAN 1	72.5 ON DEC 29	4 170 000	1948
1949	---	306 ON DEC 14	87.1 ON APR 17	3 840 000	1949
1950	---	311 E ON AUG 22	188 ON APR 30	7 590 000	1950
1951	---	277 ON NOV 18	137 ON APR 28	8 380 000	1951
1952	---	384 ON SEP 16	143 ON APR 16	8 120 000	1952
1953	---	303 ON JAN 1	161 ON JUN 15	7 000 000	1953
1954	---	181 ON JAN 1	127 ON MAY 21	4 690 000	1954
1955	---	363 ON AUG 19	118 ON APR 3	5 720 000	1955
1956	---	219 ON JAN 1	118 ON DEC 31	5 070 000	1956
1957	---	180 ON AUG 8	105 ON APR 4	4 200 000	1957
1958	---	174 R ON AUG 6	103 ON APR 6	4 330 000	1958
1959	---	438 ON JUL 26 *	138 ON MAR 28	8 190 000	1959
1960	---	251 ON JAN 1	115 B ON DEC 30	5 360 000	1960
1961	---	116 B ON JAN 1	86.98 ON DEC 31	2 820 000	1961
1962	137 AT 18:00 CST ON SEP 22	135 ON SEP 22	85.18 ON JAN 5 *	3 190 000	1962
1963	218 AT 18:00 CST ON AUG 6	217 ON AUG 7	100 B ON FEB 2	4 770 000	1963
1964	168 AT 05:36 CST ON JUL 23	175 ON AUG 3	116 E ON APR 1	4 370 000	1964
1965	---	257 RE ON AUG 15	101 B ON MAR 21	5 480 000	1965
1966	272 AT 15:30 CST ON AUG 28	266 ON AUG 11	127 B ON APR 28	6 080 000	1966
1967	---	388 A ON AUG 15	128 B ON APR 15	7 040 000	1967
1968	278 AT 15:30 CST ON SEP 23 *	274 ON SEP 13	118 ON MAY 1	6 170 000	1968
1969	---	236 ON DEC 31	130 A ON AUG 30	5 210 000	1969
1970	---	236 A ON JAN 1	158 ON MAY 5	6 080 000	1970
1971	245 AT 12:00 CST ON AUG 16	239 ON AUG 15	140 E ON DEC 31	5 970 000	1971
1972	188 AT 13:46 CST ON JUL 30	167 ON JUL 30	98.88 ON APR 28	4 170 000	1972
1973	200 AT 16:36 CST ON AUG 17	200 ON AUG 18	93.7 ON APR 18	4 580 000	1973
1974	215 AT 19:00 CST ON AUG 10	213 ON AUG 6	138 ON DEC 24	5 340 000	1974
1975	212 AT 09:30 CST ON OCT 19	201 ON OCT 19	109 ON APR 28	4 780 000	1975
1976	181 AT 12:30 CST ON JAN 2	179 ON JAN 1	82.7 ON DEC 28	3 750 000	1976
1977	93.4 AT 03:00 CST ON NOV 5	92.9 ON NOV 3	73.1 ON APR 11	2 580 000	1977
1978	---	169 B ON NOV 20	81.38 ON MAR 26	3 600 000	1978
1979	---	328 A ON AUG 5	139 ON APR 17	5 700 000	1979
1980	193 B AT 00:01 CST ON JAN 1	192 B ON JAN 1	111 ON OCT 10	4 430 000	1980
1981	132 AT 08:43 CST ON DEC 25	132 ON DEC 25	92.3 ON APR 20	3 420 000	1981
1982	---	176 E ON SEP 8	108 ON APR 23	4 530 000	1982
1983	263 AT 11:30 CST ON AUG 4	260 ON AUG 3	128 ON APR 23	5 830 000	1983
1984	168 AT 04:30 CST ON JUL 22	159 ON JUL 21	101 B ON DEC 31	4 130 000	1984
1985	277 AT 21:27 CST ON SEP 3	276 ON SEP 4	87.98 ON MAR 26	5 360 000	1985
1986	223 AT 22:50 CST ON AUG 7	222 ON AUG 1	121 B ON APR 15	5 280 000	1986
1987	---	---	103 B ON APR 6	---	1987
1988	137 AT 10:53 CST ON JUL 7	132 ON JUN 26	88.89 ON DEC 31	3 380 000	1988
				5 130 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	---	---	---	---	---	---	801	689	---	---	---	1968
1970	207	218	233	263	484	880	855	429	413	678	650	312	487	1970
1971	261	269	229	331	868	888	681	922	441	316	482	301	483	1971
1972	188	148	164	176	803	859	424	333	404	452	228	185	343	1972
1973	158	155	148	166	633	508	510	403	374	686	589	441	416	1973
1974	294	268	248	260	782	908	580	488	519	438	260	195	432	1974
1975	182	174	163	241	852	545	450	880	882	---	---	---	---	1975
1976	315	267	212	255	908	329	472	385	685	382	193	108	387	1976
1977	88.4	103	110	330	366	218	273	321	498	337	270	203	280	1977
1978	180	148	135	138	913	588	852	768	785	835	384	300	488	1978
1979	284	243	222	238	884	818	754	593	442	471	417	310	471	1979
1980	248	224	210	387	984	470	488	393	852	538	302	238	418	1980
1981	210	178	152	136	793	725	548	458	388	847	344	278	405	1981
1982	240	211	188	170	1 110	788	430	418	448	442	388	288	425	1982
1983	288	230	208	190	1 140	1 180	827	584	738	842	471	312	543	1983
1984	257	223	181	537	731	685	521	330	374	388	373	231	388	1984
1985	201	175	168	388	1 120	1 780	1 120	598	578	713	435	275	631	1985
1986	250	232	208	200	---	583	550	472	510	488	381R	263R	---	1986
1987	209	184	174	---	---	---	---	---	588	417	313	241	---	1987
1988	200	182	177	174	1 000	509	278	285	195	188	187	111	248	1988
MEAN	219	200	185	263	840	718	585	483	504	614	380R	264R	424R	MEAN

LOCATION - LAT 55 51 00 N, LONG 92 05 55 W
DRAINAGE AREA, 55 800 km^2
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

GODS RIVER NEAR SHAMATTAWA - STATION NO. 04AD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	---	---	---	1969
1970	1 250 AT 09:12 CST ON JUN 11	1 240 ON JUN 11	204 B ON JAN 1	14 400 000	1970
1971	1 180B AT 00:00 CST ON MAY 11	1 180B ON MAY 11	181 B ON APR 13	14 300 000	1971
1972	1 140 AT 01:10 CST ON MAY 20	1 110 ON MAY 19	138 B ON DEC 15	10 900 000	1972
1973	1 330 AT 15:00 CST ON OCT 16	1 330 ON OCT 16	140 B ON MAR 23	13 100 000	1973
1974	1 170 AT 14:00 CST ON JUN 9	1 150 ON JUN 9	183 B ON DEC 30	13 800 000	1974
1975	---	---	---	---	1975
1976	---	1 780E ON MAY 14	92.0B ON DEC 31	11 800 000	1976
1977	---	5130 ON APR 25	44.7B ON JAN 12 *	8 200 000	1977
1978	---	1 700E ON MAY 13	133 B ON MAR 17	14 800 000	1978
1979	---	1 370B ON MAY 24	214 B ON MAR 28	14 800 000	1979
1980	---	1 880B ON MAY 3	207 B ON MAR 17	13 200 000	1980
1981	---	1 760B ON MAY 18	130 B ON APR 25	12 800 000	1981
1982	---	2 130B ON MAY 3	181 B ON APR 24	13 400 000	1982
1983	2 880 AT 14:00 CST ON MAY 27 *	2 790B ON MAY 27 *	188 B ON APR 14	17 300 000	1983
1984	1 030 AT 07:10 CST ON JUN 27	1 030 ON JUN 27	169 B ON APR 7	12 500 000	1984
1985	2 750 AT 20:00 CST ON JUN 27	2 740 ON JUN 27	135 B ON APR 15	19 800 000	1985
1986	---	---	199 B ON APR 16	---	1986
1987	---	---	---	---	1987
1988	---	1 990B ON MAY 5	97.9B ON DEC 31	9 120 000	1988
				13 400 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	3.83	0.376	0.003	0.011	0	0	0	---	---	1.04	1974
1975	---	---	0	0.122	0.023	0.020	0	0.011	0.031	0.018	---	---	0.041	1975
1976	---	---	0.002	1.87	0.008	0.004	0	0	0	0	---	---	0.487	1976
1977	---	---	0.005	0	0.002	0.007	---	---	---	---	---	---	0.003	1977
1978	---	---	0.003	0.098	0.008	0.007	---	---	---	---	---	---	0.028	1978
1979	---	---	0	2.04	0.283	0.033	---	---	---	---	---	---	0.576	1979
1980	---	---	0	0.015	0	0	---	---	---	---	---	---	0.004	1980
1981	---	---	0.001	0.001	0.004	0.006	---	---	---	---	---	---	0.003	1981
1982	---	---	0.003	0.207	0.002	0	---	---	---	---	---	---	0.052	1982
1983	---	---	0	0.328	0.003	0.005	---	---	---	---	---	---	0.083	1983
1984	---	---	0.002	0.001	0.009	0.001	---	---	---	---	---	---	0.003	1984
1985	---	---	0.079	0.028	0.003	0.001	---	---	---	---	---	---	0.028	1985
1986	---	---	0.084	0.180	0.471	0.003	---	---	---	---	---	---	0.189	1986
1987	---	---	0.045	0.227	0.002	0	---	---	---	---	---	---	0.068	1987
1988	---	---	0.001	0.007	0.008	0	---	---	---	---	---	---	0.004	1988
MEAN	---	---	0.016	0.604	0.078	0.006	0.004	0.004	0.010	0.008	---	---	0.174	MEAN

LOCATION - LAT 50 13 27 N
LONG 98 58 36 W
DRAINAGE AREA, 50.0 km^2
NATURAL FLOW

GOPHER CREEK NEAR GLADSTONE - STATION NO. 05LL024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	15.9 B ON APR 20 *	0B ON MAR 1 *	10 900	1974
1975	---	0.758B ON APR 20	0B ON MAR 1	429	1975
1976	---	13.1 ON APR 8	0B ON MAR 1	5 130	1976
1977	---	0.037 ON JUN 13	0B ON MAR 1	38.5	1977
1978	---	0.402 ON APR 9	0B ON MAR 1	300	1978
1979	---	10.9 ON APR 24	0B ON MAR 1	5 080	1979
1980	---	0.052B ON APR 5	0B ON MAR 1	37.6	1980
1981	0.024 AT 18:18 CST ON MAY 29	0.021 ON MAY 30	0B ON MAR 1	30.5	1981
1982	1.87 A AT 12:00 CST ON APR 15	1.85 A ON APR 15	0B ON MAR 1	851	1982
1983	1.18 AT 13:34 CST ON APR 24	1.03 ON APR 24	0B ON MAR 1	873	1983
1984	0.106B AT 14:03 CST ON MAY 3	0.036B ON MAY 3	0B ON MAR 1	32.9	1984
1985	0.596B AT 15:59 CST ON MAR 27	0.384B ON MAR 26	0B ON MAR 1	296	1985
1986	8.85 AT 01:38 CST ON MAY 6 *	4.87 ON MAY 6	0B ON MAR 1	1 990	1986
1987	2.21 AT 03:37 CST ON APR 8	1.87 ON APR 8	0B ON MAR 1	717	1987
1988	---	0.062B ON APR 3	0B ON MAR 1	41.5	1988
				1 830	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTPEME RECORDED FOR THE PERIOD OF RECORD

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.107	0.051	0.021	0	0	0	0	0	---	---	0.022	1959
1960	---	---	0	1.40	0.076	0.028	0	0	0	0	---	---	0.185	1960
1961	---	---	0	0.123	0.010	0	0	0	0	0	---	---	0.016	1961
1962	---	---	0	0.498	0.036	0.169	0	0.080	0	0	---	---	0.089	1962
1963	---	---	0.805	0.244	0.128	0.736	0.102	0.001	0.001	0	---	---	0.251	1963
1964	---	---	0	1.43	0.776	0.075	0.002	0	0	0	---	---	0.283	1964
1965	---	---	0	1.80	0.148	0.088	0.841	0.045	0.282	0.334	---	---	0.440	1965
1966	---	---	0.223	0.550	0.311	0.003	0	0	0	0	---	---	0.135	1966
1967	---	---	0	1.28	0.341	0.008	0	0	0	0	---	---	0.202	1967
1968	---	---	0.388	0.033	0.111	0.004	0	0	0	0	---	---	0.068	1968
1969	---	---	0	4.01	0.281	0.017	0.540	0.053	0	0.058	---	---	0.610	1969
1970	---	---	0	2.84	1.49	0.175	0.217	0.140	0.058	0.127	---	---	0.803	1970
1971	---	---	0.012	0.540	0.114	0.828	0.288	0.012	0.041	0.097	---	---	0.239	1971
1972	---	---	1.26	0.870	0.118	0.013	0.001	0.001	0.001	0.001	---	---	0.285	1972
1973	---	---	0.088	0.080	0.085	0.013	0.102	0.013	0.026	0.137	---	---	0.065	1973
1974	---	---	0.001	3.70	0.795	0.080	0	0	0	0	---	---	0.584	1974
1975	---	---	0	2.34	0.807	0.471	0.029	0.058	0.408	0.170	---	---	0.541	1975
1976	---	---	0	11.6	0.259	0.114	0.049	0	0	0	---	---	1.47	1976
1977	---	---	0.007	0.019	0.149	0.005	0	0	0	0	---	---	0.023	1977
1978	---	---	0.016	0.276	0.082	0.008	0	0	0	0	---	---	0.047	1978
1979	---	---	0	2.12	0.541	0.130	0.002	0	0	0	---	---	0.344	1979
1980	---	---	0	0.085	0	0	0	0	0	0	---	---	0.012	1980
1981	---	0.130	0.074	0	0.001	0	0	0	0	0	---	---	0.008	1981
1982	---	---	0	0.680	0.022	0.011	0	0	0	0	---	---	0.112	1982
1983	---	---	0	1.70	0.051	0.023	0	0	0	0	---	---	0.217	1983
1984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.713	0.108	0.028	0	0	0.017	0.020	0.035	---	---	0.118	1985
1986	---	---	0.508	0.188	0.390	0.010	0.012	0	0	0	---	---	0.140	1986
1987	---	---	0.363	1.05	0.029	0.034	0	0	0	0	---	---	0.175	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
MEAN	---	0.130	0.150	1.32	0.244	0.102	0.073	0.014	0.026	0.032	---	---	0.243	MEAN

LOCATION - LAT 49 47 00 N DRAINAGE AREA, 282 km²
LONG 100 57 52 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.410 AND 0 m³/s OCCURRED IN FEBRUARY

GOPHER CREEK NEAR VIRDEN - STATION NO. 05MG003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	0.467 ON MAR 27	0E ON MAR 1 *	475	1959
1960	---	5.44 B ON APR 4	0B ON MAR 1	3 910	1960
1961	---	0.634 ON APR 4	0 ON MAR 1	345	1961
1962	---	4.05 ON APR 7	0 ON MAR 1	2 100	1962
1963	---	4.87 B ON MAR 23	0B ON MAR 1	5 330	1963
1964	---	3.74 ON APR 10	0B ON MAR 1	5 980	1964
1965	---	7.82 ON APR 14	0B ON MAR 1	9 310	1965
1966	---	2.12 B ON MAR 30	0B ON MAR 1	2 870	1966
1967	---	2.83 B ON APR 11	0B ON MAR 1	4 280	1967
1968	---	1.01 B ON MAR 28	0B ON MAR 1	1 430	1968
1969	---	17.3 B ON APR 14	0B ON MAR 1	12 900	1969
1970	---	8.55 B ON APR 10	0B ON MAR 1	12 800	1970
1971	---	4.73 ON JUN 9	0B ON MAR 1	5 060	1971
1972	---	4.81 B ON MAR 21	0B ON MAR 1	6 230	1972
1973	---	1.18 ON JUL 28	0B ON MAR 1	1 370	1973
1974	---	13.4 ON APR 18	0B ON MAR 1	11 900	1974
1975	---	7.48 B ON APR 17	0B ON MAR 1	11 500	1975
1976	---	45.2 B ON APR 10 *	0B ON MAR 1	31 200	1976
1977	---	0.521 ON MAY 9	0B ON MAR 1	477	1977
1978	---	0.912B ON APR 11	0B ON MAR 1	888	1978
1979	---	10.8 ON APR 23	0B ON MAR 1	7 290	1979
1980	---	0.424B ON APR 8	0B ON MAR 1	248	1980
1981	---	0.283B ON MAR 1	0 ON MAR 30	201	1981
1982	6.27 AT 10:55 CST ON APR 14 *	5.73 ON APR 14	0B ON MAR 1	2 370	1982
1983	5.80B AT 12:04 CST ON APR 11	4.90 ON APR 22	0B ON MAR 1	4 610	1983
1984	---	0.002E ON MAR 25	0B ON MAR 1	0.80	1984
1985	---	3.63 B ON MAR 22	0B ON MAR 1	2 480	1985
1986	2.21B AT 08:32 CST ON MAR 28	1.67 B ON MAR 19	0B ON MAR 1	2 950	1986
1987	5.72B AT 08:17 CST ON APR 4	4.80 B ON APR 4	0B ON MAR 1	3 710	1987
1988	0 B AT 00:01 CST ON MAR 1	0 B ON MAR 1	0B ON MAR 1	0	1988
				5 140	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	0.014	0	---	---	---	---	---	---	---	1938
1943	---	---	0	1.45	0.081	0.175	0.024	0	0	0	---	---	0.210	1943
1944	---	---	0	0	0	0.101	0.127	0.008	0.004	0.004	---	---	0.030	1944
1945	---	---	0.015	0.078	0.027	0.020	0.008	0	0	0	---	---	0.018	1945
1946	---	---	0.547	0.251	0.013	0	0.002	0	0	0	---	---	0.114	1946
1947	---	---	0	0.189	0.006	0.150	0.123	0	0	0	---	---	0.058	1947
1948	---	---	0	1.11	0.576	0.004	0	0	0	0	---	---	0.222	1948
1949	---	---	0	1.16	0.051	0.246	0.002	0	0	0	---	---	0.178	1949
1950	---	---	0	0.863	0.835	0.152	0.131	0.380	0.148	0.080	---	---	0.288	1950
1951	---	---	0	2.17	1.58	0.082	0	0	0	0	---	---	0.475	1951
1952	---	---	0.033	0.267	0	0	0.008	0	0	0	---	---	0.038	1952
1953	---	---	0.016	0.035	0	0.007	0	0	0	0	---	---	0.007	1953
1954	---	---	0	0	0	0.227	0.198	0.028	0	0	---	---	0.058	1954
1955	---	---	0	1.71	0.418	0.095	0.020	0	0	0	---	---	0.277	1955
1956	---	---	0	1.89	0.180	0.056	0.015	0	0	0	---	---	0.284	1956
1957	---	---	0.078	0.078	0.043	0.056	0.008	0.141	0.181	0.023	---	---	0.077	1957
1958	---	---	0.385	0.209	0.010	0	0	0	0	0	---	---	0.072	1958
1959	---	---	0.071	0.005	0	0	0	0	0	0	---	---	0.010	1959
1960	---	---	0.108	0.507	0.018	0.009	0	0	0	0	---	---	0.079	1960
1961	---	---	0	0	0	0	0	0	0	0	---	---	0	1961
1962	---	---	0	0	0	0	0	0	0	0	---	---	0	1962
1963	---	---	0.125	0.017	0.002	0.545	0.018	0.003	0.007	0.001	---	---	0.089	1963
1964	---	---	0.433	0.781	0.500	0.101	0.018	0	0	0	---	---	0.229	1964
1965	---	---	0	0.214	0.084	0.035	0.003	0	0	0.007	---	---	0.050	1965
1966	---	---	0.191	0.205	0.166	0.048	0.001	0	0	0	---	---	0.078	1966
1967	---	---	0	0.051	0.077	0.001	0	0	0	0	---	---	0.018	1967
1968	---	---	0.081	0.004	0	0	0	0	0	0	---	---	0.011	1968
1969	---	---	0	3.29	0.571	0.083	0.142	0.023	0	0	---	---	0.508	1969
1970	---	---	0	0.923	2.05	0.158	0.016	0.006	0	0	---	---	0.385	1970
1971	---	---	0	0.055	0.005	0.189	0.031	0	0	0.003	---	---	0.034	1971
1972	---	---	0.709	0.508	0.111	0.087	0.022	0.010	0.005	0.003	---	---	0.183	1972
1973	---	---	0.007	0.025	0.078	0.018	0.001	0	0	0.005	---	---	0.017	1973
1974	---	---	0	3.48	0.548	0.184	0.007	0.003	0	0	---	---	0.518	1974
1975	---	---	0	1.87	1.78	0.121	0.038	0.008	0.027	0.273	---	---	0.488	1975
1976	---	---	0	14.4	1.20	0.117	0.003	0.001	0	0	---	---	1.83	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.007	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.497	0.043	0.006	0	0	0	0	---	---	0.057	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.001	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.241	0	0	0.002	0	0	0	---	---	0.030	1982
1983	---	---	0.044	0.801	0.051	0.003	0	0	0	0	---	---	0.112	1983
1984	---	---	0.001	0	0.008	0	0	0	0	0	---	---	0.001	1984
1985	---	---	0.240	0.032	0.006	0	0	0	0	0	---	---	0.035	1985
1986	---	---	0.018	0.024	0.160	0	0.027	0.014	0	0	---	---	0.030	1986
1987	---	---	0.556	0.320	0.006	0	0	0	0	0	---	---	0.110	1987
1988	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1988
MEAN	---	0.001	0.051	0.856	0.238	0.057	0.022	0.013	0.008	0.008	---	---	0.180	MEAN

LOCATION - LAT 49 15 50 N
LONG 100 59 45 W

DRAINAGE AREA, 734 km²
NATURAL FLOW

REMARKS - DATA PRIOR TO 1957 WERE PUBLISHED UNDER STATION NO. 05NF004 "GRAHAM CREEK NEAR MELITA"

GRAHAM CREEK NEAR MELITA - STATION NO. 05NF008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	0 ON MAY 24 *	---	1938
1943	---	10.1 ON APR 4	0B ON MAR 1	4 450	1943
1944	---	0.694 ON JUN 29	0B ON MAR 1	835	1944
1945	---	0.5018 ON APR 13	0B ON MAR 1	384	1945
1946	---	8.80 ON MAR 27	0B ON MAR 1	2 420	1946
1947	---	0.8848 ON APR 12	0B ON MAR 1	1 250	1947
1948	---	5.15 ON APR 22	0B ON MAR 1	4 700	1948
1949	---	11.2 ON APR 11	0B ON MAR 1	3 800	1949
1950	---	1.38 ON MAY 16	0B ON MAR 1	5 890	1950
1951	---	7.02 ON MAY 5	0B ON MAR 1	10 000	1951
1952	---	1.10 B ON APR 2	0B ON MAR 1	802	1952
1953	---	0.510 ON MAR 31	0E ON MAR 1	152	1953
1954	---	0.227E ON JUN 1	0E ON MAR 1	1 190	1954
1955	---	7.02 B ON APR 5	0B ON MAR 1	5 850	1955
1956	---	4.53 ON APR 14	0B ON MAR 1	5 590	1956
1957	---	1.27 ON AUG 1	0 ON MAR 1	1 830	1957
1958	---	2.27 B ON MAR 29	0B ON MAR 1	1 520	1958
1959	---	0.5668 ON MAR 27	0B ON MAR 1	203	1959
1960	---	1.81 B ON APR 4	0B ON MAR 1	1 670	1960
1961	---	0 ON MAR 1	0 ON MAR 1	0	1961
1962	---	0 ON MAR 1	0 ON MAR 1	0	1962
1963	---	1.50 ON JUN 2	0B ON MAR 1	1 870	1963
1964	---	2.12 B ON APR 3	0B ON MAR 1	4 850	1964
1965	---	0.8549 ON APR 18	0 ON MAR 1	1 080	1965
1966	---	0.7388 ON MAR 15	0B ON MAR 1	1 820	1966
1967	---	0.2898 ON APR 11	0B ON MAR 1	342	1967
1968	---	0.3918 ON MAR 26	0B ON MAR 1	228	1968
1969	---	11.8 ON APR 17	0B ON MAR 1	10 700	1969
1970	---	5.88 E ON MAY 3	0B ON MAR 1	8 350	1970
1971	---	0.841 ON JUN 12	0B ON MAR 1	710	1971
1972	---	2.18 B ON MAR 24	0B ON MAR 1	3 870	1972
1973	---	0.122 ON MAY 2	0B ON MAR 1	389	1973
1974	---	14.8 B ON APR 18	0B ON MAR 1	11 000	1974
1975	---	5.88 ON MAY 3	0B ON MAR 1	10 300	1975
1976	---	36.5 ON APR 12 *	0B ON MAR 1	40 800	1976
1977	---	0.0018 ON MAR 8	0B ON MAR 1	0.52	1977
1978	---	0.0408 ON APR 16	0B ON MAR 1	18.0	1978
1979	---	3.20 B ON APR 19	0B ON MAR 1	1 420	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	1.46 AT 02:10 CST ON APR 18	1.28 ON APR 15	0B ON MAR 1	630	1982
1983	2.03 AT 04:40 CST ON APR 7	1.51 B ON APR 5	0B ON MAR 1	2 370	1983
1984	0.294 AT 08:13 CST ON MAY 7	0.088 ON MAY 7	0B ON MAR 1	24.7	1984
1985	1.53 AT 07:49 CST ON MAR 20	1.32 B ON MAR 20	0B ON MAR 1	744	1985
1986	0.885 AT 04:22 CST ON MAY 6	0.732 ON MAY 6	0B ON MAR 1	842	1986
1987	4.11 B AT 08:55 CST ON MAR 22 *	3.70 B ON MAR 22	0B ON MAR 1	2 330	1987
1988	0.0238 AT 00:25 CST ON MAR 25	0.0088 ON MAR 25	0B ON MAR 1	4.32	1988
				3 400	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	---	---	---	---	119	98.3	78.5	61.7	---	1959
1960	48.2	43.1	33.1	30.6	48.7	123	110	81.5	88.3	48.0	39.0	28.9	59.3	1960
1961	23.8	20.7	17.9	15.6	34.2	43.0	36.5	29.5	22.4	18.3	19.0	18.5	24.8	1961
1962	15.2	14.2	13.3	12.9	41.4	105	112	77.5	56.2	44.8	40.5	36.2	47.7	1962
1963	35.6	31.6	28.7	30.9	70.6	130	125	89.7	84.3	51.3	48.0	42.6	62.8	1963
1964	36.2	28.5	23.3	39.2	88.6	80.2	63.6	53.1	59.9	87.5	104	98.4	62.0	1964
1965	82.9	68.4	64.3	43.3	103	194	207	181	138	114	99.5	84.1	113	1965
1966	68.7	58.3	48.9	41.6	70.6	184	237	228	187	138	99.4	75.8	120	1966
1967	59.0	50.7	44.1	38.8	54.9	121	130	111	80.8	60.4	50.4	43.9	70.6	1967
1968	37.1	33.7	29.2	27.5	89.2	140	142	117	95.1	90.7	97.3	94.4	81.3	1968
1969	79.7	69.8	61.8	47.3	87.0	98.4	95.9	70.4	86.7	118	127	108	84.5	1969
1970	84.9	84.3	49.8	39.4	52.2	103	154	138	107	87.5	91.1	88.2	88.5	1970
1971	78.1	62.7	48.8	42.9	80.3	102	114	101	86.3	73.0	90.3	89.8	81.5	1971
1972	92.3	73.8	56.1	41.1	87.8	133	145	129	107	97.7	86.2	73.0	93.6	1972
1973	58.8	47.1	39.1	35.9	47.0	85.8	82.1	84.4	79.3	88.1	81.4	53.5	80.3	1973
1974	45.0	38.3	32.8	31.5	57.5	119	128	107	78.9	57.8	48.0	38.8	85.2	1974
1975	33.9	29.1	26.3	25.3	36.7	80.9	118	116	91.8	83.3	77.0	83.7	85.4	1975
1976	50.0	39.6	32.3	29.8	32.4	37.5	58.9	79.8	77.4	61.9	53.3	48.0	50.1	1976
1977	39.1	32.9	29.0	34.8	53.7	81.2	105	89.5	82.2	84.4	84.2	82.5	86.8	1977
1978	69.2	55.0	42.2	36.3	52.4	88.6	80.5	86.5	78.2	90.3	98.6	92.5	70.7	1978
1979	77.6	68.6	49.0	37.7	80.6	134	158	141	103	77.9	61.6	48.4	84.8	1979
1980	41.0	35.1	30.3	29.3	35.6	31.7	33.5	32.6	61.4	93.7	99.6	89.9	51.2	1980
1981	71.4	54.1	42.0	34.4	65.0	74.1	75.1	76.6	65.6	49.6	52.5	55.3	58.1	1981
1982	55.9	50.4	41.5	34.6	77.7	115	112	84.6	74.1	58.6	49.7	48.3	67.6	1982
1983	41.7	36.0	31.4	27.8	42.5	122	133	122	108	117	110	102	83.2	1983
1984	68.6	71.5	54.0	51.4	85.1	138	137	115	83.5	85.1	83.5	86.3	91.7	1984
1985	87.4	73.1	---	---	---	---	180	153	115	---	---	---	---	1985
1986	50.3	42.4	34.1	31.8	67.0	108	140	159	144	116	91.1	72.6	88.3	1986
1987	58.0	46.4	38.4	38.9	66.8	87.4	94.3	80.6	68.0	56.2	46.1	38.4	60.1	1987
1988	32.8	28.8	26.9	25.6	68.0	108	108	79.1	54.1	37.9	30.6	26.7	52.2	1988
MEAN	56.6	47.0	37.4	34.2	60.2	105	116	104	88.0	78.0	72.8	65.5	71.6	MEAN

LOCATION - LAT 55 44 35 N
LONG 97 00 00 W
DRAINAGE AREA, 15 400 km^2
NATURAL FLOW

GRASS RIVER ABOVE STANDING STONE FALLS - STATION NO. 05TD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	---	---	1959
1960	---	138 E ON JUN 26	25.3 ON DEC 31	1 880 000	1960
1961	---	48.4 ON MAY 30	15.0E ON APR 21	780 000	1961
1962	132 AT 16:20 CST ON JUN 28	122 ON JUN 28	12.7E ON APR 11 *	1 510 000	1962
1963	147 AT 13:30 CST ON JUN 23	140 ON JUN 26	26.3 ON MAR 21	1 870 000	1963
1964	---	106 ON NOV 17	20.8A ON MAR 19	1 860 000	1964
1965	---	215 E ON JUL 1	38.5 ON APR 26	3 550 000	1965
1966	---	246 ON JUL 21 *	39.6 ON APR 26	3 780 000	1966
1967	---	134 ON JUN 26	35.1E ON MAY 2	2 230 000	1967
1968	---	150 E ON JUL 8	26.3A ON APR 26	2 570 000	1968
1969	---	129 ON NOV 3	41.3 ON APR 11	2 670 000	1969
1970	---	162 E ON JUL 12	35.2 ON APR 17	2 790 000	1970
1971	125 AT 15:13 CST ON JUL 14	124 ON JUL 13	40.2 ON APR 19	2 570 000	1971
1972	152 AT 11:46 CST ON JUL 18	151 ON JUL 18	37.4 ON APR 24	2 880 000	1972
1973	86.0 AT 13:00 CST ON AUG 26	80.0 ON AUG 29	34.5A ON APR 18	1 900 000	1973
1974	140 AT 17:00 CST ON JUL 12	135 ON JUN 29	29.4 ON APR 24	2 080 000	1974
1975	132 AT 13:15 CST ON JUL 26	129 ON JUL 25	25.0 ON APR 13	2 070 000	1975
1976	88.8 AT 12:30 CST ON AUG 18	84.4 ON SEP 8	28.5 ON APR 5	1 580 000	1976
1977	117 AT 10:15 CST ON JUL 13	112 ON JUL 13	28.0 ON MAR 31	2 110 000	1977
1978	106 AT 12:45 CST ON NOV 3	99.1 ON NOV 1	35.1 ON APR 22	2 230 000	1978
1979	178 AT 15:00 CST ON JUL 16 *	173 ON JUL 16	38.1 ON APR 18	2 880 000	1979
1980	103 AT 18:15 CST ON OCT 30	103 ON OCT 30	25.8 ON APR 13	1 820 000	1980
1981	80.0 AT 12:30 CST ON JUL 8	84.5 ON JUL 8	32.1 ON APR 28	1 830 000	1981
1982	125 AT 11:50 CST ON JUN 26	122 ON JUN 25	32.8 ON APR 23	2 130 000	1982
1983	142 AT 15:35 CST ON JUL 27	137 ON JUL 19	27.1 ON APR 19	2 820 000	1983
1984	162 AT 12:43 CST ON JUN 30	148 ON JUN 29	45.0 ON APR 5	2 900 000	1984
1985	---	---	---	---	1985
1986	186 AT 18:25 CST ON AUG 24	183 ON AUG 18	30.6 ON APR 3	2 780 000	1986
1987	102 AT 14:20 CST ON JUL 3	98.4 ON JUL 15	33.3E ON APR 12	1 800 000	1987
1988	---	118 A ON JUN 19	25.1A ON MAR 24	1 850 000	1988
				2 280 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	11.2	8.22	6.22	5.84	4.83	4.81	---	1957
1958	5.18	5.28	5.90	8.32	13.3	13.8	10.3	7.47	6.80	7.05	6.84	6.80	8.09	1958
1959	7.24	6.86	6.57	6.59	14.8	23.8	22.8	16.0	12.9	12.3	11.4	11.5	12.7	1959
1960	10.8	10.0	9.28	9.88	12.7	23.2	18.0	12.1	8.21	5.26	4.88	4.12	10.7	1960
1961	4.87	4.72	4.83	5.08	5.87	5.32	5.39	3.87	2.14	1.85	1.71	2.11	3.98	1961
1962	2.18	2.88	3.20	3.35	8.19	16.0	11.6	9.67	7.92	6.31	5.12	5.16	6.88	1962
1963	5.08	5.04	4.82	6.49	10.8	16.5	17.3	11.8	9.81	8.50	8.41	7.90	9.57	1963
1964	8.27	7.47	6.78	8.37	8.57	7.88	7.02	8.61	13.4	19.2	20.9	18.1	11.0	1964
1965	16.3	14.1	12.9	11.0	19.6	33.7	27.9	19.2	15.4	13.8	12.6	12.4	17.4	1965
1966	11.7	10.6	9.56	8.78	12.3	29.2	45.3	42.7	31.1	23.5	19.2	17.5	21.8	1966
1967	15.1	13.1	11.2	10.8	12.5	16.3	19.0	18.1	12.5	9.78	9.32	9.29	13.3	1967
1968	8.74	8.86	8.45	8.44	12.7	17.6	16.3	13.4	13.3	12.7	13.0	13.0	12.4	1968
1969	11.6	11.0	10.1	11.2	14.3	12.6	10.1	9.08	8.65	12.9	14.3	14.2	11.7	1969
1970	12.3	10.8	9.82	9.37	13.2	17.0	28.0	25.1	19.4	15.1	17.1	15.8	16.2	1970
1971	14.2	12.5	11.0	10.8	15.7	15.8	14.5	11.2	8.76	8.81	10.7	12.4	12.2	1971
1972	11.8	11.3	10.3	9.58	16.5	20.9	26.6	23.3	17.6	17.3	16.5	14.6	18.4	1972
1973	13.8	12.0	11.1	10.1	16.5	24.6	22.7	18.0	13.4	9.80	8.80	8.87	14.1	1973
1974	8.36	8.33	8.13	8.87	15.1	19.5	16.1	10.7	8.35	8.81	8.37	8.11	10.2	1974
1975	8.44	8.47	8.31	8.47	9.17	17.3	20.2	18.2	11.6	10.0	8.81	7.82	10.8	1975
1976	7.88	7.50	6.83	6.85	8.77	8.31	12.2	12.6	11.4	10.0	9.24	8.88	9.04	1976
1977	8.42	8.02	7.55	7.88	9.04	9.80	11.9	15.0	16.6	14.9	16.2	14.7	11.7	1977
1978	13.2	11.3	9.82	9.74	11.6	12.1	12.3	10.9	10.2	12.5	13.9	12.8	11.7	1978
1979	12.1	10.8	10.0	9.70	16.4	28.3	23.6	16.5	11.2	9.71	9.11	8.73	13.8	1979
1980	8.24	8.26	7.68	7.25	7.18	6.69	5.80	4.48	5.40	8.43	8.57	9.39	7.38	1980
1981	8.32	8.67	8.12	7.52	8.38	9.25	9.45	6.45	4.83	5.23	6.82	7.07	7.69	1981
1982	7.03	6.78	6.67	7.06	10.6	13.5	11.8	9.32	7.32	6.22	5.38	5.54	8.11	1982
1983	5.89	5.62	5.61	5.63	6.80	12.0	16.8	22.2	23.0	21.5	20.1	17.0	13.7	1983
1984	14.9	13.7	11.3	14.7	23.6	28.2	25.3	18.0	14.0	17.0	21.2	21.3	18.7	1984
1985	18.5	15.7	13.7	12.4	23.3	31.8	28.3	23.6	22.2	19.5	18.8	14.3	20.0	1985
1986	13.0	11.5	10.6	10.6	15.3	20.7	21.2	21.5	15.0	12.8	11.1	10.5	14.5	1986
1987	9.57	9.54	9.07	10.3	12.9	14.7	13.7	10.8	8.80	8.50	8.45	8.89	9.85	1987
1988	4.71	5.12	5.59	8.33	10.2	9.16	7.49	5.48	4.32	3.13	2.48	2.21	5.82	1988
MEAN	9.89	9.15	8.48	8.82	12.8	17.4	17.3	14.4	11.8	11.1	10.9	10.3	12.0	MEAN

LOCATION - LAT 54 47 20 N DRAINAGE AREA, 3 250 km^2
LONG 99 58 10 W NATURAL FLOW

GRASS RIVER AT WEKUSKO FALLS - STATION NO. 05TB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	18.3 ON JUN 13	4.73 ON JAN 11	255 000	1958
1959	---	27.7 ON JUL 6	5.37 ON MAR 4	400 000	1959
1960	---	25.6 E ON JUN 12	3.82 ON DEC 22	338 000	1960
1961	---	8.64 ON MAY 21	1.30 ON OCT 11 *	125 000	1961
1962	---	21.8 ON JUN 15	1.93 ON JAN 3	217 000	1962
1963	---	20.3 ON JUN 30	4.13 ON APR 21	302 000	1963
1964	---	21.4 ON OCT 24	5.72 ON APR 25	349 000	1964
1965	---	34.8 E ON JUN 11	10.6 ON APR 22	549 000	1965
1966	---	50.1 ON JUL 8 *	8.35 ON APR 15	689 000	1966
1967	---	19.9 ON JUL 7	8.78 ON DEC 27	418 000	1967
1968	---	20.8 ON JUL 18	7.99A ON APR 3	382 000	1968
1969	---	15.0 E ON MAY 20	8.10 ON SEP 3	368 000	1969
1970	33.7 AT 18:00 CST ON JUL 7	32.8 ON JUL 7	9.12 ON APR 21	512 000	1970
1971	18.7 AT 13:00 CST ON JUN 1	17.4 ON JUN 2	7.84 ON SEP 25	384 000	1971
1972	30.6 AT 17:00 CST ON JUL 10	28.6 ON JUL 9	9.00 ON APR 22	518 000	1972
1973	28.3 AT 18:46 CST ON JUN 23	27.8 ON JUN 24	8.52 ON DEC 4	446 000	1973
1974	20.9 AT 16:05 CST ON JUN 5	20.6 ON JUN 14	5.82 ON DEC 12	323 000	1974
1975	24.1 AT 15:30 CST ON JUN 29	22.5 ON JUL 4	5.87 ON APR 2	334 000	1975
1976	14.9 AT 17:16 CST ON AUG 2	14.4 ON AUG 2	8.34 ON MAY 31	285 000	1976
1977	18.2 AT 13:01 CST ON NOV 12	17.3 ON SEP 14	7.05 ON APR 6	368 000	1977
1978	15.5 AT 13:51 CST ON NOV 7	15.0 ON NOV 7	9.37 ON MAR 31	389 000	1978
1979	31.8 AT 17:05 CST ON JUN 8	29.7 ON JUN 8	8.44 ON DEC 17	434 000	1979
1980	10.1 AT 05:51 CST ON OCT 30	9.90 ON NOV 18	4.09 ON AUG 20	233 000	1980
1981	12.4 AT 14:06 CST ON JUL 8	11.6 ON JUN 30	4.17 ON OCT 7	238 000	1981
1982	14.3 AT 12:26 CST ON JUN 24	14.0 ON JUN 24	5.03 ON NOV 17	256 000	1982
1983	26.0 AT 16:48 CST ON SEP 23	25.0 ON SEP 23	5.27 ON APR 11	431 000	1983
1984	32.8 AT 14:22 CST ON JUN 10	31.0 ON JUN 10	10.5 ON MAR 16	590 000	1984
1985	35.4 AT 13:18 CST ON JUN 19 *	34.7 A ON JUN 30	1.1 ON APR 16	631 000	1985
1986	24.8 AT 17:02 CST ON AUG 2	24.4 ON AUG 2	0.65 ON APR 10	458 000	1986
1987	18.3 AT 12:05 CST ON JUN 24	15.2 ON JUN 23	4.58E ON DEC 31	305 000	1987
1988	11.8 AT 16:49 CST ON MAY 17	11.2 ON MAY 8	1.98 ON DEC 31	174 000	1988
				377 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

GRASSMERE CREEK DRAIN NEAR MIDDLECHURCH - STATION NO. 05QJ017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	1.01	2.21	0.185	---	---	---	---	---	---	1963
1964	---	---	0	1.22	0.082	0.118	---	---	---	0.038	---	---	---	1964
1965	---	---	0	8.05	0.607	0.125	0.064	0.037	0.034	0.023	---	---	0.883	1965
1966	---	---	0.005	4.20	0.876	0.132	0.216	0.085	0.019	0.009	---	---	0.881	1966
1967	---	---	0.027	3.58	0.582	0.084	0.058	0.001	0.001	0	---	---	0.532	1967
1968	---	---	0.454	0.553	0.181	0.088	0.813	1.84	0.693	0.448	---	---	0.585	1968
1969	---	---	0	5.73	0.546	0.673	1.82	0.895	0.306	0.155	---	---	1.25	1969
1970	---	---	0	9.26	1.32	0.495	0.860	0.170	0.213	0.113	---	---	1.52	1970
1971	---	---	0	5.40	0.253	0.107	0.152	0.095	0.015	0.013	---	---	0.885	1971
1972	---	---	0.111	5.88	0.048	0.019	0.014	0.028	0.013	0.015	---	---	0.751	1972
1973	---	---	1.52	0.018	0.006	0.052	0.011	0.006	0.013	0.028	---	---	0.209	1973
1974	---	---	0	13.9	4.88	0.405	0.111	0.061	0.045	0.061	---	---	2.42	1974
1975	---	---	0	1.44	0.087	0.025	0.003	0.002	0	0.011	---	---	0.192	1975
1976	---	---	0	4.47	0.010	0.088	0.011	0.001	0	0	---	---	0.582	1976
1977	---	---	0.012	0.280	0.073	0.067	0.017	0.001	0.268	0.078	---	---	0.101	1977
1978	---	---	0	5.48	0.252	0.081	0.033	0.008	0.033	0.015	---	---	0.843	1978
1979	---	---	0	14.5	2.38	0.187	0.028	0.013	0.003	0.003	---	---	2.10	1979
1980	---	---	0	1.14	0.019	0.007	0	0	0	0.007	---	---	0.144	1980
1981	---	---	0.486	0.037	0.021	0.045	0.014	0.035	0.008	0.031	---	---	0.088	1981
1982	---	---	0.438	2.51	0.044	0.059	0.031	0.009	0.018	0.049	---	---	0.388	1982
1983	---	---	0.531	5.82	0.030	0.865	0.110	0.023	0.008	0.004	---	---	0.895	1983
1984	---	---	0.282	0.272	0.038	0.021	0	0	0	0.022	---	---	0.075	1984
1985	---	---	1.78	0.988	0.031	0.028	0.003	0.989	0.008	0.008	---	---	0.478	1985
1986	---	---	2.53	3.61	1.82	0.058	1.04	0.118	0.058	0.050	---	---	1.18	1986
1987	---	---	0	4.72	0.087	0.041	0.015	1.11	0.022	0.025	---	---	0.739	1987
1988	---	---	0.025	0.571	0.051	0.052	0.003	0	0	0	---	---	0.068	1988
MEAN	---	---	0.328	4.18	0.582	0.229	0.209	0.221	0.074	0.048	---	---	0.731	MEAN

LOCATION - LAT 50 00 08 N LONG 97 07 01 W DRAINAGE AREA, 471 km^2 NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "GRASSMERE DRAIN NEAR MIDDLECHURCH"

GRASSMERE CREEK DRAIN NEAR MIDDLECHURCH - STATION NO. 05OJ017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	---	---	1983
1984	---	3.948 ON APR 15	08 ON MAR 1 *	---	1984
1985	---	21.8 ON APR 15	08 ON MAR 1	18 100	1985
1986	---	18.1 B ON APR 12	08 ON MAR 1	14 400	1986
1987	---	11.4 B ON APR 21	08 ON MAR 1	11 300	1987
1988	---	19.1 ON AUG 25	08 ON MAR 1	12 400	1988
1989	---	24.7 B ON APR 10	08 ON MAR 1	26 500	1989
1970	---	26.9 B ON APR 25	08 ON MAR 1	32 200	1970
1971	22.4 AT 21:29 CST ON APR 19	21.8 ON APR 11	08 ON MAR 1	18 300	1971
1972	26.9 B AT 15:10 CST ON APR 15	27.3 B ON APR 15	08 ON MAR 1	15 000	1972
1973	8.688 AT 15:16 CST ON MAR 23	5.728 ON MAR 23	08 ON MAR 1	4 430	1973
1974	51.3 AT 17:22 CST ON APR 21 *	50.1 ON APR 21	08 ON MAR 1	51 200	1974
1975	4.06 AT 06:06 CST ON APR 23	3.85 ON APR 23	08 ON MAR 1	4 070	1975
1976	---	24.1 B ON APR 7	08 ON MAR 1	11 800	1976
1977	2.49 AT 07:00 CST ON APR 10	2.21 ON APR 10	08 ON MAR 1	2 140	1977
1978	---	17.9 B ON APR 12	08 ON MAR 1	17 800	1978
1979	---	50.7 ON APR 21 *	08 ON MAR 1	44 400	1979
1980	6.26 AT 22:10 CST ON APR 11	4.728 ON APR 12	08 ON MAR 1	3 050	1980
1981	---	1.368 ON MAR 24	08 ON MAR 1	1 830	1981
1982	---	14.6 B ON APR 13	08 ON MAR 1	8 230	1982
1983	26.4 AT 20:58 CST ON APR 4	23.7 B ON APR 5	08 ON MAR 1	18 800	1983
1984	4.568 AT 09:56 CST ON APR 3	3.218 ON MAR 26	08 ON MAR 1	1 590	1984
1985	16.3 AT 17:03 CST ON AUG 17	8.188 ON MAR 26	08 ON MAR 1	10 100	1985
1986	31.8 AT 05:03 CST ON APR 1	29.6 B ON MAR 31	08 ON MAR 1	25 100	1986
1987	40.8 B AT 19:13 CST ON APR 7	36.0 ON APR 8	08 ON MAR 1	15 600	1987
1988	---	4.728 ON APR 4	08 ON MAR 1	1 850	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 500	MEAN

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	21.8	15.7	9.88	6.27	---	---	---	---	1971
1972	---	---	---	---	---	32.1	18.4	9.40	6.18	4.63	3.76	2.78	---	1972
1973	2.67	2.20	3.02	10.0	34.0	34.8	31.1	12.8	7.12	17.5	14.5	11.9	15.2	1973
1974	9.32	6.80	4.92	17.6	74.8	46.8	---	---	---	---	---	---	---	1974
1975	2.49	2.27	2.30	---	---	---	37.0	23.4	20.3	19.3	15.4	7.28	---	1975
1976	5.22	4.46	3.96	11.2	8.24	15.8	20.0	8.81	4.79	4.26	3.30	2.64	7.82	1976
1977	2.41	2.21	2.05	8.56	19.8	18.4	18.4	21.2	28.0	21.6	16.6	8.75	14.2	1977
1978	5.48	3.58	2.93	7.24	18.9	11.5	8.81	---	6.28	14.0	20.8	11.4	---	1978
1979	6.36	4.73	3.97	7.17	59.0	---	---	20.8	13.1	16.0	20.8	13.7	---	1979
1980	8.29	6.04	4.82	15.2	27.0	13.5	5.78	4.23	8.78	14.9	8.36	6.45	10.2	1980
1981	3.83	2.82	2.17	3.92	16.7	20.2	20.5	18.0	16.0	26.2	33.8	21.3	15.5	1981
1982	11.4	6.50	4.12	---	---	48.7	30.8	20.0	12.2	24.8	20.9	13.7	---	1982
1983	9.62	3.32	0.833	9.87	---	---	---	---	---	11.0	10.7	7.60	---	1983
1984	5.35	4.38	3.72	22.5	36.8	21.7	11.2	8.48	4.08	6.17	7.40	6.39	11.4	1984
1985	6.06	5.38	4.17	11.1	29.2	45.2	43.1	26.3	22.6	23.9	18.4	8.32	20.4	1985
1986	4.78	3.57	3.02	17.4	58.7	36.6	18.1	14.7	7.86	9.06	3.38	1.69	15.1	1986
1987	1.79	1.84	2.97	25.9	30.2	28.7	30.2	21.0	22.2	15.6	11.5	6.87	15.7	1987
1988	4.38	3.40	2.58	4.53	26.0	20.6	10.6	6.86	4.32	5.43	3.88	2.72	7.87	1988
MEAN	5.58	3.91	3.23	12.4	33.9	27.8	21.4	14.6	11.9	14.7	13.4	8.29	13.4	MEAN

LOCATION - LAT 53 47 10 N DRAINAGE AREA, 4 500 km^2
LONG 97 40 20 W NATURAL FLOW

REMARKS - DISCHARGE RECORDS PRIOR TO JUN 1972 WERE OBTAINED AT LAT. 53 43 30 LONG. 097 42 40, AT FIRST PITCH ABOVE DIAMOND RAPIDS

GUNISAO RIVER ABOVE DIAMOND RAPIDS - STATION NO. 05UA003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	44.2 ON JUL 8	2.158 ON FEB 18	478 000	1973
1974	93.4 AT 19:10 CST ON APR 30	92.6 ON MAY 1 *	---	---	1974
1975	---	---	---	---	1975
1976	36.0 AT 14:00 CST ON JUN 29	35.7 ON JUN 29	2.518 ON DEC 31	247 000	1976
1977	---	32.3 ON SEP 4	1.938 ON APR 6	448 000	1977
1978	30.0 AT 14:00 CST ON APR 28	29.4 ON APR 28	2.928 ON MAR 5	---	1978
1979	---	---	3.628 ON APR 8	---	1979
1980	---	39.4E ON APR 25	2.41 ON AUG 20	323 000	1980
1981	40.8 AT 12:30 CST ON NOV 6	38.7 ON NOV 6	1.788 ON APR 4	490 000	1981
1982	---	---	3.538 ON APR 4	---	1982
1983	111 AT 08:30 CST ON MAY 24 *	---	---	---	1983
1984	42.1 AT 17:50 CST ON MAY 6	42.1 ON MAY 7	3.438 ON MAR 30	359 000	1984
1985	68.3 ON JUN 30	67.5R ON JUN 30	2.95RB ON APR 11	643 000	1985
1986	76.5 ON MAY 20	75.0 ON MAY 20	1.828 ON DEC 29	475 000	1986
1987	43.5 AT 11:40 CST ON APR 28	42.8 ON APR 28	1.778 ON JAN 11 *	527 000	1987
1988	31.8 AT 16:00 CST ON MAY 21	31.1 ON MAY 13	2.29 ON DEC 27	249 000	1988
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986		424 000	MEAN

HALES CREEK NEAR HARDING - STATION NO. 05MG011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	0	0	0	2.82	0.140	0.043	0	0.020	0.405	0.015	0.007	0	0.284	1975
1976	0	0	0	3.50	0.028	0.186	0.003	0	0	0	0	0	0.329	1976
1977	0	0	0.0^7	0.015	0.008	0.001	0.015	0.003	0.002	0.001	0.004	0.001	0.005	1977
MEAN	0	0	0.008	2.21	0.058	0.077	0.006	0.008	0.136	0.005	0.004	0	0.206	MEAN

LOCATION - LAT 49 54 48 N
LONG 100 30 28 W
DRAINAGE AREA, 110 km²
NATURAL FLOW

HALES CREEK NEAR HARDING - STATION NO. 05MG011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1975	47.6 AT 17:55 CST ON APR 27 *	21.3 ON APR 28	0B ON JAN 1 *	8 980	1975
1976	---	23.3 B ON APR 5 *	0B ON JAN 1	10 400	1976
1977	0.292 AT 02:40 CST ON JUL 14	0.127 ON JUL 13	0B ON JAN 1	171	1977
				8 510	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	0.008	0	0	0.013	0	0	0	---	---	0.003	1961
1962	---	---	0	0.088	0	0	0	0	0	0	---	---	0.011	1962
1963	---	---	0.088	0.017	0	0.034	0.015	0	0	0	---	---	0.019	1963
1964	---	---	0	0.082	0.024	0	0.008	0	0	0	---	---	0.011	1964
1965	---	---	0	0.053	0.008	0.002	0	0	0	0	---	---	0.008	1965
1966	---	---	0.001	0.058	0.030	0.001	0	0	0	0	---	---	0.011	1966
1967	---	---	0	0.284	0.117	0.005	0	0	0	0	---	---	0.051	1967
1968	---	---	0.023	0.015	0	0	0	0	0	0	---	---	0.005	1968
1969	---	---	0	0.804	0.024	0	0	0	0	0	---	---	0.077	1969
1970	---	---	0	0.148	0.075	0.001	0	0	0	0	---	---	0.026	1970
1971	---	---	0	0.043	0	0.104	0.025	0	0	0	---	---	0.021	1971
1972	---	---	0.013	0.131	0.019	0	0	0	0	0	---	---	0.020	1972
1973	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	0.235	0.031	0	0	0	0	0	---	---	0.033	1974
1975	---	---	0	0.226	0.205	0	0	0	0	0	---	---	0.054	1975
1976	---	---	0	0.544	0.008	0	0	0	0	0	---	---	0.068	1976
MEAN	---	---	0.008	0.158	0.034	0.008	0.004	0	0	0	---	---	0.026	MEAN

LOCATION - LAT 50 10 50 N
LONG 100 33 30 W
DRAINAGE AREA, 48.2 km²
NATURAL FLOW

HAMIOTA CREEK NEAR HAMIOTA - STATION NO. 05MG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---				
1962	---	0.402 ON JUL 20	0 ON MAR 1 *	54.5	1961
1963	---	1.18 ON APR 18	0 ON MAR 1	228	1962
1964	---	0.714 ON MAR 29	0B ON MAR 1	408	1963
		0.261 ON APR 15	0 ON MAR 1	241	1964
1965	---				
1966	---	0.4906 ON APR 12	0B ON MAR 1	168	1965
1967	---	0.181 ON APR 22	0B ON MAR 1	238	1966
1968	---	1.27 B ON APR 17	0B ON MAR 1	1 090	1967
1969	---	0.1938 ON MAR 27	0B ON MAR 1	99.1	1968
		1.57 ON APR 13 *	0B ON MAR 1	1 820	1969
1970	---				
1971	---	0.6438 ON APR 12	0B ON MAR 1	589	1970
1972	---	0.556 ON JUN 9	0B ON MAR 1	447	1971
1973	---	0.368 ON APR 9	0B ON MAR 1	428	1972
1974	---	0.0148 ON MAR 9	0B ON MAR 1	3.80	1973
		0.915 ON APR 20	0B ON MAR 1	892	1974
1975	---				
1976	---	0.824 ON APR 28	0B ON MAR 1	1 140	1975
		1.48 ON APR 17	0B ON MAR 1	1 430	1976
				555	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	15.8	24.3	37.0	40.5	34.7	18.1	8.52	4.84	4.41	---	1957
1958	4.58	4.84	5.98	8.89	14.8	26.2	27.6	26.3	25.0	30.1	32.1	26.5	19.5	1958
1959	21.6	22.2	24.5	30.5	74.2	141	155	111	147	141	110	91.7	88.4	1959
1960	75.1	60.8	49.6	48.7	72.2	83.8	80.7	58.4	43.7	35.1	25.5	17.9	55.1	1960
1961	14.2	12.3	11.7	17.0	40.7	46.1	38.1	27.5	23.7	25.0	28.3	---	---	1961
1962	---	---	---	---	37.8	58.4	48.6	29.5	28.6	29.7	27.8	---	---	1962
1963	---	---	---	---	57.6	93.5	59.2	41.2	29.0	25.6	18.3	12.1	---	1963
1964	9.90	9.16	9.08	9.22	36.4	67.2	40.6	28.3	25.4	30.1	34.4	---	---	1964
1965	---	---	---	21.4	55.7	119	126	88.2	65.8	66.4	59.6	48.2	---	1965
1966	36.7	28.8	24.3	23.4	41.8	115	180	109	78.5	59.5	46.1	39.8	65.6	1966
1967	35.4	29.3	20.3	23.9	34.3	162	130	86.5	43.0	34.9	27.0	27.8	53.1	1967
1968	28.1	19.5	24.3	28.1	38.3	85.1	81.1	86.5	73.1	76.9	70.6	54.8	56.4	1968
1969	46.5	44.9	57.3	57.7	58.7	58.3	43.3	34.6	40.8	82.9	81.0	56.1	51.6	1969
1970	48.9	42.4	41.9	42.3	48.5	82.3	74.7	57.8	56.1	55.4	71.9	68.4	58.8	1970
1971	65.4	61.4	54.2	52.2	71.0	72.1	61.8	53.7	45.7	36.9	40.2	48.7	55.3	1971
1972	50.4	51.8	41.9	43.7	71.2	80.5	58.2	54.4	43.3	35.8	25.2	18.1	49.3	1972
1973	13.8	10.8	15.8	23.6	35.7	48.9	48.9	44.8	38.7	41.7	42.9	37.3	33.8	1973
MEAN	36.4	30.6	29.3	29.6	48.4	80.3	77.8	56.6	48.8	46.9	42.6	39.3	53.3	MEAN

LOCATION - LAT 54 57 40 N
LONG 95 18 10 W
DRAINAGE AREA, 8 420 km²
NATURAL FLOW

HAYES RIVER AT OUTLET OF OXFORD LAKE - STATION NO. 04AA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	43.0 ON JUL 25	---	---	1957
1958	---	34.5 ON NOV 11	4 238 ON JAN 1 *	613 000	1958
1959	---	189 ON JUL 6	21.1 B ON JAN 17	2 820 000	1959
1960	---	98.6 ON JUN 13	15.7 B ON DEC 31	1 740 000	1960
1961	50.4 AT 00:30 EST ON JUN 16	47.6 ON JUN 7	11.4 B ON MAR 11	---	1961
1962	88.8 AT 00:30 EST ON JUN 30	81.2 ON JUN 28	---	---	1962
1963	---	100 ON JUN 8	---	---	1963
1964	---	83.3 ON JUN 8	---	---	1964
1965	---	138 ON JUN 28	---	---	1965
1966	---	200 ON JUL 13 *	22.7 B ON APR 8	2 070 000	1966
1967	---	181 ON JUN 22	26.6 B ON MAR 13	1 670 000	1967
1968	---	104 ON JUL 31	13.3 ON FEB 18	1 780 000	1968
1969	---	89.9 ON OCT 18	24.1 ON SEP 4	1 630 000	1969
1970	78.4 AT 02:43 CST ON JUL 14	78.2 ON JUL 14	40.5 B ON FEB 11	1 780 000	1970
1971	83.6 AT 17:02 CST ON JUN 1 *	82.1 ON JUN 1	32.5 ON NOV 7	1 740 000	1971
1972	---	82.7E ON JUN 3	14.4 ON DEC 14	1 560 000	1972
1973	84.4 AT 18:35 CST ON JUN 22	83.0 ON JUL 10	9.40B ON FEB 21	1 070 000	1973
				1 680 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	350	317	293	345	1 250	1 440	940	887	749	537	299	244	623	1974
1975	232	225	217	325	1 320	843	812	828	828	---	---	---	---	1975
1976	341	280	257	305	---	521	724	598	902	590	356	231	---	1976
1977	187	175	163	550	850	505	492	486	751	500	445	280	438	1977
1978	210	188	170	183	1 210	891	1 020	1 170	1 220	1 150	576	435	714	1978
1979	340	318	295	309	1 360	1 586	1 300	908	674	709	601	481	751	1979
1980	384	331	291	511	1 020	778	738	627	984	921	422	321	612	1980
1981	302	269	244	231	1 390	1 310	943	803	535	998	590	550	684	1981
1982	514	486	418	372	1 680	1 250	658	685	723	720	598	456	729	1982
1983	383	348	311	283	1 450	2 340	988	880	---	887	650	423	---	1983
1984	337	296	276	---	---	1 080	679	382	434	481	413	357	---	1984
1985	307	262	219	470	1 630	2 810	1 710	868	737	945	688	437	907	1985
1986	339	301	281	275	---	1 060	944	1 060	844	728	450	338	---	1986
1987	287	271	254	924	915	522	728	---	---	---	494	330	---	1987
1988	256	223	205	187	---	---	478	405	296	291	229	173	---	1988
MEAN	319	285	260	377	1 280	1 200	883	735	744	743	492	361	682	MEAN

LOCATION - LAT 56 25 55 N
LONG 92 47 19 W
DRAINAGE AREA, 103 000 km²
NATURAL FLOW

HAYES RIVER BELOW GODS RIVER - STATION NO. 04AB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	1 870E ON JUN 10	235B ON DEC 31	19 800 000	1974
1975	---	---	---	---	1975
1976	---	---	---	---	1976
1977	---	---	197B ON DEC 31	---	1976
1978	---	1 180B ON APR 25	157B ON MAR 31	13 900 000	1977
1979	---	2 320E ON MAY 15	185B ON MAR 23	22 500 000	1978
		2 520E ON MAY 27	278B ON APR 7	23 700 000	1979
1980	---	1 640B ON MAY 3	279B ON APR 3	19 400 000	1980
1981	---	2 910B ON MAY 19	228B ON APR 19	21 800 000	1981
1982	---	3 060B ON MAY 5	350B ON APR 27	23 000 000	1982
1983	---	4 230B ON MAY 28 *	260B ON MAY 15	---	1983
1984	---	---	---	---	1984
1985	3 900 AT 17:35 CST ON JUN 27 *	3 880 ON JUN 27	192B ON APR 14	28 600 000	1985
1986	---	---	275B ON APR 3	---	1986
1987	---	2 380B ON APR 22	284B ON MAR 12	---	1987
1988	---	---	151B ON DEC 31 *	---	1988
				21 500 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	26.1	21.1	23.4	37.4	82.7	98.7	80.5	65.6	53.0	47.5	40.0	24.3	48.5	1974
1975	15.8	15.6	18.4	24.1	48.0	54.6	48.4	36.1	33.6	34.4	31.6	18.5	31.8	1975
1976	15.7	14.3	13.2	21.8	26.3	21.8	19.3	19.5	23.0	19.8	15.0	12.3	18.5	1976
1977	11.2	10.7	12.0	24.4	43.4	44.2	41.4	37.4	36.5	43.3	40.0	25.7	31.1	1977
1978	20.3	17.6	16.5	20.9	48.9	47.3	41.8	---	---	47.4	47.2	36.7	---	1978
1979	28.6	22.8	18.3	15.4	80.7	158	128	79.4	51.5	44.5	47.2	39.1	57.1	1979
1980	30.7	26.0	24.3	32.1	42.2	38.4	29.3	26.3	36.6	50.1	45.1	30.1	34.3	1980
1981	25.0	23.3	22.6	22.8	46.5	64.2	72.2	53.7	37.6	38.6	50.9	40.9	41.7	1981
1982	31.6	28.4	26.0	26.7	71.8	78.5	57.6	56.9	63.8	57.0	50.9	40.2	49.8	1982
1983	33.7	29.9	26.1	23.0	67.4	150	120	82.9	86.6	62.7	56.5	39.9	63.3	1983
1984	26.1	25.1	22.9	---	---	87.1	69.2	42.5	32.3	25.0	18.1	18.5	---	1984
1985	17.6	18.8	18.2	---	---	---	117	---	---	49.3	47.5	40.9	---	1985
1986	36.0	36.0	34.2	34.2	103	138	107	88.4	89.4	64.9	41.3R	32.8 R	64.8R	1986
1987	28.4	27.6	26.4	38.0	81.5	---	---	---	---	28.7	18.0	12.2	---	1987
1988	10.8	10.9	12.7	17.1	51.1	89.8	47.5	31.5	24.0	19.8	12.9	8.85	25.4	1988
MEAN	24.3	21.8	20.9	28.1	65.5	79.1	69.1	51.8	44.2	41.7	37.5R	28.1 R	42.5R	MEAN

LOCATION - LAT 54 51 23 N
LONG 95 07 12 W
DRAINAGE AREA, 8 880 km^2
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

HAYES RIVER BELOW TROUT FALLS - STATION NO. 04AA004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	110 AT 14:30 CST ON JUN 30	104 ON JUN 29	19.5 B ON FEB 18	1 530 000	1974
1975	83.4 AT 01:00 CST ON JUN 14	58.4 ON JUN 11	14.9 B ON JAN 19	1 010 000	1975
1976	---	29.2 ON APR 23	11.8 B ON DEC 30	585 000	1976
1977	52.4 AT 14:52 CST ON JUN 10	50.1 ON MAY 21	10.5 B ON FEB 23	881 000	1977
1978	68.9 AT 19:20 CST ON NOV 1	57.8 ON NOV 1	18.5 B ON MAR 3	---	1978
1979	175 AT 23:00 CST ON JUN 17 *	173 ON JUN 17 *	14.8 B ON APR 27	1 800 000	1979
1980	57.6 AT 11:10 CST ON OCT 27	55.2 ON OCT 27	20.4 ON AUG 20	1 080 000	1980
1981	89.1 AT 17:08 CST ON JUL 9	88.2 ON JUL 9	22.0 B ON APR 18	1 320 000	1981
1982	88.2 AT 04:07 CST ON JUN 7	84.8 ON JUN 7	24.6 B ON APR 8	1 550 000	1982
1983	158 AT 18:10 CST ON JUN 13	157 ON JUN 14	22.1 B ON APR 23	2 000 000	1983
1984	71.6 ON JUN 23	71.0 ON JUN 23	---	---	1984
1985	130 AT 18:40 CST ON JUL 9	124 ON JUL 7	---	---	1985
1986	155 ON MAY 28	153 ON MAY 28	30.8 RB ON DEC 31	2 040 000R	1986
1987	---	---	11.2 B ON DEC 30	---	1987
1988	77.1 AT 18:00 CST ON JUN 19	75.7 ON JUN 17	7.72B ON DEC 31 *	838 000	1988
				1 340 000R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05DA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	---	---	---	---	---	---	---	0	0	0	---	1961
1962	0	0	0	0.196	0.009	0.002	0	0	0	0	0	0	---	1962
1963	0	0	0.001	0	0	0.013	0	0	0	0	0	0	0.017	1963
1964	0	0	0	0.269	0.017	0.012	0.001	0.003	0.010	0.007	0	0	0.001	1963
													0.026	1964
1965	0	0	0	0.748	0.480	0.078	0.140	0.002	0	0	0	0	0.121	1965
1966	0	0	0.262	0.028	0.051	0.001	0.047	0.002	0	0	0	0	0.033	1966
1967	0	0	0.073	0.413	0.080	0	0	0	0	0	0	0	0.047	1967
1968	0	0	0.004	0.002	0.001	0	0	0.484	0.474	0.014	0.005	0.881	0.082	1968
1969	0	0	0	2.50	0.043	0.001	0.022	0	0	0	0	0	0.211	1969
1970	0	0	0.001	0.824	0.784	0.008	0.551	0.033	0.003	0	0	0	0.185	1970
1971	0	0	0	1.63	0.054	0.105	0.348	0.009	0	0	0	0	0.178	1971
1972	0	0	0.588	0.374	0.037	0.023	0.020	0.001	0	0	0	0	0 086	1972
1973	0	0	0.027	0.001	0.002	0.231	0.051	0	0.020	0.001	0	0	0.028	1973
1974	0	0	0	3.31	1.24	0.186	0	0	0	0	0	0	0.382	1974
1975	0	0	0	2.01	0.258	0.018	0.001	0	0	0	0	0	0.189	1975
1976	0	0	0.204	1.56	0.023	0	0	0	0	0	0	0	0.146	1976
1977	0	0	0	0.001	0	0	0	0	0	0	0	0	0	1977
1978	0	0	0	0.709	0.012	0	0	0	0	0	0	0	0.058	1978
1979	0	0	0	2.60	0.448	0.019	0	0	0	0	0	0	0.254	1979
1980	0	0	0	0.177	0.001	0	0	0	0.030	0.030	0.015	0	0.021	1980
1981	0	0.321	0.137	0.008	0.082	0.054	0.001	0	0	0	0	0	0.047	1981
1982	0	0	0.130	0.522	0.150	0.007	0	0	0	0.003	0.003	0.029	0.070	1982
1983	0	0	0.060	0.869	0.082	0.005	0.037	0	0	0	0	0	0.089	1983
1984	0	0	0.239	0.131	0.183	0	0	0	0	0	0	0	0.047	1984
1985	0	0	0.429	0.036	0.001	0.001	0	0	0	0	0	0	0.040	1985
1986	0	0	0.194	0.173	0.070	0.285	0.025	0	0	0	0	0	0.061	1986
1987	0	0	0.161	0.867	0.002	0	0	0.207	0	0	0	0	0.086	1987
1988	0	0	0	0.009	0	0	0	0	0	0	0	0	0.001	1988
MEAN	0	0.012	0.097	0.731	0.152	0.037	0.048	0.027	0.020	0.002	0.001	0.001	0.094	MEAN

LOCATION - LAT 48 57 10 N LONG 99 25 35 W DRAINAGE AREA, 55.1 km² NATURAL FLOW INTERNATIONAL GAUGING STATION

HIDDEN ISLAND COULEE NEAR HANSBORO - STATION NO. 05DA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1961	---	---		---	1961
1962	1.13 ON APR 6	0.891 ON APR 6	0 ON OCT 1 *	---	1962
1963	0.262 AT 18:30 CST ON JUL 25	0.074 ON JUN 25	0 ON JAN 1	538	1963
1964	0.9068 ON APR 9	0.8508 ON APR 9	0 ON JAN 1	37.1	1964
				832	
1965	3.51 AT 03:00 CST ON APR 11	3.26 ON APR 11	0 ON JAN 1	3 810	1965
1966	1.87 B AT 20:00 CST ON MAR 14	1.39 B ON MAR 15	0 ON JAN 1	1 050	1966
1967	3.62 AT 10:00 CST ON APR 21	2.44 ON APR 21	0B ON JAN 1	1 480	1967
1968	8.17 AT 14:30 CST ON AUG 24	3.82 ON AUG 25	0B ON JAN 1	2 600	1968
1969	19.8 B ON APR 12	17.0 B ON APR 12	0B ON JAN 1	6 670	1969
1970	6.98 AT 11:30 CST ON APR 29	6.04 ON APR 29	0B ON JAN 1	5 840	1970
1971	18.0 AT 23:00 CST ON APR 10	10.5 ON APR 10	0 ON JAN 1	5 600	1971
1972	10.0 AT 20:00 CST ON MAR 15	4.47 ON MAR 17	0 ON JAN 1	3 020	1972
1973	1.47 AT 08:00 CST ON JUN 20	1.27 ON JUN 21	0 ON JAN 1	870	1973
1974	30.0 AT 08:00 CST ON APR 21	23.6 ON APR 21	0 ON JAN 1	12 400	1974
1975	11.5 AT 22:00 CST ON APR 28	9.91 ON APR 14	0 ON JAN 1	5 970	1975
1976	8.34 AT 23:00 CST ON APR 1	6.23 ON MAR 31	0 ON JAN 1	4 810	1976
1977	---	0.0038 ON APR 9	0B ON JAN 1	2.33	1977
1978	---	4.25 B ON APR 6	0B ON JAN 1	1 870	1978
1979	34.0 B AT 10:60 CST ON APR 23 *	28.3 B ON APR 23 *	0B ON JAN 1	8 000	1979
1980	2.55 AT 23:15 CST ON APR 3	1.64 ON APR 4	0B ON JAN 1	858	1980
1981	2.69 B AT 20:45 CST ON FEB 21	1.81 B ON FEB 21	0B ON JAN 1	1 470	1981
1982	---	2.61 ON MAR 31	0B ON JAN 1	2 210	1982
1983	4.39 B AT 11:30 CST ON APR 2	2.27 B ON APR 5	0B ON JAN 1	2 600	1983
1984	7.46 AT 19:15 CST ON MAR 24	2.01 ON MAR 24	0 ON JAN 1	1 470	1984
1985	---	1.70 B ON MAR 17	0 ON JAN 1	1 250	1985
1986	7.82 AT 14:00 CST ON JUN 21	2.62 ON JUN 21	0 ON JAN 1	1 810	1986
1987	---	4.67 B ON APR 5	0 ON JAN 1	2 720	1987
1988	0.130 AT 00:45 CST ON APR 4	0.054 ON APR 4	0 ON JAN 1	23.7	1988
				2 950	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	---	---	---	---	1958
1959	---	---	---	---	---	0.243	3.20	0.286	0.291	0.456	---	---	---	1959
1960	---	---	0.008	13.8	11.2	3.81	0.831	0.361	0.364	1.84	---	---	3.96	1960
1961	---	---	0.186	34.3	7.20	1.49	0.385	0.354	0.346	0.408	---	---	5.60	1961
1962	---	---	1.13	5.50	1.50	0.360	0.181	0.113	0.295	0.335	---	---	1.17	1962
1963	---	---	0.074	7.74	2.30	1.88	0.288	0.636	0.304	0.529	---	---	1.69	1963
1964	---	---	1.33	14.1	2.80	18.5	1.44	0.597	0.487	0.482	---	---	4.57	1964
1965	---	---	0.212	4.74	2.03	1.04	0.383	0.496	0.481	0.521	---	---	1.23	1965
1966	---	---	0.081	5.12	4.48	2.35	0.833	0.408	0.533	0.464	---	---	1.89	1966
1967	---	---	0.274	4.51	4.47	0.714	0.585	0.253	0.273	0.270	---	---	1.41	1967
1968	---	---	0.187	16.8	3.41	0.697	0.464	0.298	0.180	0.267	---	---	2.87	1968
1969	---	---	0.497	5.50	1.32	0.623	1.22	0.870	1.61	1.01	---	---	1.57	1969
1970	---	---	0.245	18.5	1.77	1.20	0.430	0.365	0.478	0.486	---	---	2.52	1970
1971	---	---	0.159	10.1	4.28	0.871	0.380	0.240	0.218	0.262	---	---	2.04	1971
1972	---	---	0.125	5.88	0.482	0.413	0.426	0.200	0.177	0.228	---	---	0.878	1972
1973	---	---	0.127	10.2	0.741	0.331	0.338	0.283	0.223	0.238	---	---	1.84	1973
1974	---	---	1.57	0.897	0.363	1.59	0.436	0.568	2.82	3.41	---	---	1.41	1974
1975	---	---	0.283	49.8	21.6	2.40	0.351	0.368	0.310	0.351	---	---	9.32	1975
1976	---	---	0.193	4.81	1.16	0.587	0.367	8.40	8.92	3.57	---	---	3.71	1976
1977	---	---	0.274	41.7	2.32	1.01	0.486	0.213	0.174	0.192	---	---	5.70	1977
1978	---	---	0.091	0.863	0.487	0.618	0.755	0.232	1.79	0.886	---	---	0.739	1978
1979	---	---	0.222	24.7	1.89	0.941	0.563	0.306	0.328	0.334	---	---	3.82	1979
1980	---	---	0.184	30.3	11.1	3.63	0.769	0.312	0.436	0.304	---	---	5.81	1980
1981	---	---	0.207	7.42	0.480	0.264	0.225	0.563	1.02	1.02	---	---	1.38	1981
1982	---	---	1.28	1.06	0.809	0.757	0.268	0.459	1.26	1.96	---	---	0.961	1982
1983	---	---	0.540	8.63	1.67	1.59	1.62	1.18	0.378	0.723	---	---	2.19	1983
1984	---	---	0.188	13.9	0.891	2.45	1.17	0.176	0.144	0.285	---	---	2.37	1984
1985	---	---	0.410	2.67	1.06	1.26	0.307	0.204	0.229	0.602	---	---	0.838	1985
1986	---	---	1.80	8.36	0.749	0.400	0.433	8.09	1.20	2.27	---	---	2.41	1986
1987	---	---	3.98	30.2	11.0	1.02	0.680	0.315	0.275	0.312	---	---	5.92	1987
1988	---	---	0.383	9.96	0.283	0.338	0.376	0.227	0.187	0.483	---	---	1.50	1988
MEAN	---	---	0.376	2.76	1.05	0.220	0.242	0.109	0.132	0.185	---	---	0.828	MEAN
	---	---	0.653	13.1	3.49	1.73	0.887	0.650	0.859	0.789	---	---	2.73	

LOCATION - LAT 50 57 35 N
LONG 97 02 10 W

DRAINAGE AREA, 1 440 km²
NATURAL FLOW

ICELANDIC RIVER NEAR RIVERTON - STATION NO. 05SC002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	---	---	83 800	1959
1960	---	38.8 B ON APR 12	0 B ON MAR 1 *	---	1960
1961	---	104 ON APR 21	0.057 ON AUG 15	118 000	1961
1962	---	16.1 ON APR 22	0.071 ON MAR 1	24 700	1962
1963	---	49.6 B ON APR 22	0.0718 ON MAR 1	36 800	1963
1964	---	73.6 B ON APR 9	0.1428 ON MAR 1	103 000	1964
1965	---	15.7 B ON APR 16	0.204 ON AUG 9	28 000	1965
1966	---	34.3 B ON APR 14	0.0578 ON MAR 1	40 100	1966
1967	---	20.6 ON MAY 5	0.1108 ON MAR 1	30 000	1967
1968	---	83.3 B ON APR 16	0.091 ON JUL 28	62 800	1968
1969	---	18.0 B ON APR 9	0.1818 ON MAR 1	33 300	1969
1970	---	86.0 B ON APR 13	0.1708 ON APR 7	53 300	1970
1971	---	35.7 B ON APR 19	0.1382 ON APR 6	43 300	1971
1972	---	41.3 ON APR 19	0.1248 ON MAR 1	20 700	1972
1973	---	45.0 B ON APR 16	0.007 ON AUG 19	32 800	1973
1974	---	16.1 ON OCT 5	0.002 ON MAY 19	28 800	1974
1975	---	203 ON APR 20 *	0.181 ON AUG 10	197 000	1975
1976	---	52.1 ON AUG 28	0.1428 ON MAR 1	78 500	1976
1977	---	123 ON APR 8	0.110 ON OCT 30	120 000	1977
1978	---	6.69 ON SEP 10	0.0068 ON MAR 1	15 600	1978
1979	---	92.7 ON APR 18	0.181 ON AUG 28	75 500	1979
1980	34.1 AT 20:52 CST ON APR 15	155 ON APR 23	0.1388 ON MAR 1	123 000	1980
1981	5.99 AT 20:45 CST ON SEP 7	22.7 B ON APR 15	0.035 ON MAY 28	29 200	1981
1982	51.6 AT 21:00 CST ON APR 18	5.128 ON MAR 31	0.0728 ON MAR 10	20 100	1982
1983	65.3 B AT 22:50 CST ON APR 7	45.1 ON APR 18	0.223 ON SEP 17	48 500	1983
1984	9.778 AT 15:48 CST ON APR 4	55.5 B ON APR 7	0.122 ON SEP 13	50 200	1984
1985	23.7 AT 20:59 CST ON APR 3	6.688 ON APR 7	0.0418 ON MAR 16	17 700	1985
1986	167 AT 05:10 CST ON APR 2 *	22.5 B ON APR 3	0.0488 ON MAR 8	51 000	1986
1987	124 AT 14:20 CST ON APR 7	129 B ON APR 2	0.1598 ON MAR 13	126 000	1987
1988	16.6 B AT 01:37 CST ON APR 5	67.3 B ON APR 7	0.042 ON MAY 21	31 800	1988
		15.6 B ON APR 5	0.007 ON JUL 24	13 300	MEAN
				57 700	

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1933	---	15.7	15.1	14.4	45.2	74.7	87.2	53.8	43.7	44.5	53.8	58.0	---	1933
1934	53.6	48.5	42.3	38.1	70.8	211	207	141	103	107	104	85.7	101	1934
1935	71.8	59.8	50.7	48.2	84.8	98.5	87.8	70.4	86.0	90.3	111	88.8	78.4	1935
1936	78.8	61.6	50.5	39.8	35.5	110	154	109	77.0	85.1	57.8	52.5	74.8	1936
1937	45.4	38.9	33.7	31.4	124	252	231	157	113	107	112	103	113	1937
1938	82.0	66.3	54.0	47.5	98.0	145	157	136	104	78.2	80.8	63.4	80.2	1938
1939	45.4	38.2	32.6	28.3	38.6	82.8	145	124	89.8	73.7	68.8	62.5	69.4	1939
1940	56.1	47.3	39.3	33.9	59.3	87.7	88.7	73.6	85.5	80.7	49.8	47.3	57.6	1940
1941	44.0	40.7	37.6	36.0	115	182	141	101	86.1	58.6	47.9	42.0	74.8	1941
1942	40.0	38.2	36.5	37.4	55.9	86.6	73.7	85.1	82.1	80.7	68.4	62.3	61.8	1942
1943	55.3	49.7	40.5	35.3	71.5	107	108	89.0	82.5	84.9	74.8	85.7	72.2	1943
1944	56.0	48.1	39.1	32.4	43.3	54.4	70.8	67.0	71.0	81.2	78.4	70.7	59.4	1944
1945	61.8	53.2	44.5	43.1	98.4	148	217	187	139	121	108	82.8	107	1945
1946	70.8	58.7	48.3	46.8	91.9	111	148	182	120	86.5	87.4	74.0	93.5	1946
1947	65.2	56.7	46.8	37.8	62.4	188	237	189	184	163	127	88.8	118	1947
1948	60.6	53.2	51.8	42.6	58.1	59.7	53.7	53.2	43.4	32.7	28.8	25.3	49.4	1948
1949	23.7	22.6	20.4	20.2	43.2	74.3	87.2	94.4	110	193	206	176	89.5	1949
1950	134	88.9	74.8	58.7	75.7	177	216	212	168	122	108	91.5	128	1950
1951	74.8	61.8	52.7	47.3	88.5	124	117	128	147	167	153	118	108	1951
1952	86.0	69.3	54.6	52.2	109	184	218	233	211	191	188	139	142	1952
1953	104	78.0	63.4	54.7	80.8	125	225	186	128	98.8	88.9	82.0	110	1953
1954	72.4	60.8	50.8	41.9	52.5	105	125	101	77.1	72.1	73.0	70.8	75.3	1954
1955	83.2	64.5	46.5	50.0	123	168	173	155	122	114	108	98.1	108	1955
1956	81.3	68.5	57.9	48.4	59.1	168	148	88.9	89.8	84.4	58.3	62.0	80.4	1956
1957	58.2	50.9	46.3	41.8	98.7	136	169	136	102	78.8	61.1	62.0	88.1	1957
1958	44.8	39.8	35.5	43.0	82.9	125	115	104	85.0	76.1	77.5	79.1	76.9	1958
1959	70.4	59.1	48.5	43.1	141	284	276	203	144	115	101	87.8	132	1959
1960	73.5	62.0	51.4	46.3	73.4	144	122	83.5	75.0	88.0	59.5	54.3	78.0	1960
1961	45.5	37.4	31.6	30.0	45.5	80.3	54.7	44.9	35.8	31.7	38.8	43.2	41.7	1961
1962	42.3	37.2	31.5	28.2	80.1	119	103	73.5	59.6	58.8	58.8	60.3	80.7	1962
1963	58.1	51.9	46.9	44.3	95.8	184	145	103	88.0	78.7	66.3	59.0	83.3	1963
1964	52.2	44.3	40.8	39.1	114	167	123	91.8	89.8	86.7	52.1	48.3	74.4	1964
1965	44.7	37.1	33.6	33.6	74.3	---	---	---	---	175	158	142	---	1965
1966	131	123	99.3	86.0	97.2	169	201	157	128	103	91.2	81.1	123	1966
1967	68.4	60.6	48.3	46.6	87.4	274	280	205	132	94.9	76.2	68.3	119	1967
1968	62.2	56.5	45.4	38.6	85.6	184	181	181	158	141	129	111	113	1968
1969	86.8	69.2	56.5	52.9	78.9	89.8	82.8	87.6	148	222	209	183	113	1969
1970	123	94.2	69.2	57.3	84.3	117	155	136	104	105	126	126	109	1970
1971	108	87.8	71.5	65.2	140	180	188	139	95.1	89.9	65.1	80.8	104	1971
1972	56.5	47.8	40.5	35.7	84.2	128	107	87.6	86.2	57.2	52.7	49.4	68.6	1972
1973	46.3	41.7	37.7	36.3	87.2	148	164	122	85.3	84.2	85.2	80.8	88.0	1973
1974	72.8	63.0	58.3	52.3	78.2	133	118	108	84.0	89.5	81.6	87.6	80.0	1974
1975	58.0	53.0	47.8	42.8	73.5	147	144	135	134	130	109	88.2	87.1	1975
1976	76.7	63.4	53.5	46.4	87.0	---	---	---	---	40.5	30.8	29.8	---	1976
1977	30.5	30.2	28.7	31.8	81.8	87.8	89.2	74.2	78.4	81.4	73.4	65.6	65.8	1977
1978	87.3	80.0	66.8	65.3	87.6	81.6	78.7	77.2	75.7	103	132	122	78.1	1978
1979	86.0	78.1	82.4	87.2	102	210	208	175	128	113	118	107	121	1979
1980	86.8	74.2	63.0	---	---	---	72.7	58.5	52.4	60.9	63.9	60.5	---	1980
1981	55.8	48.2	42.8	36.3	47.8	84.8	86.2	77.6	61.2	63.6	74.2	76.5	61.4	1981
1982	70.8	61.8	54.1	---	---	126	132	128	104	87.9	82.0	81.4	---	1982
1983	77.0	68.4	59.5	52.0	108	168	188	155	108	83.4	77.0	72.7	104	1983
1984	65.7	58.9	60.9	61.1	85.2	112	118	92.5	86.6	87.1	62.4	54.8	72.1	1984
1985	62.2	47.7	43.2	---	---	---	---	---	141	108	91.3	78.1	---	1985
1986	68.4	60.3	52.8	52.9	118	145	114	93.7	72.9	66.6	62.8	58.7	80.7	1986
1987	55.6	52.5	47.3	51.4	86.2	90.1	82.6	83.4	105	89.1	75.2	68.6	74.0	1987
1988	61.3	55.7	48.8	48.1	61.7	93.5	79.5	68.3	61.6	33.2	28.8	28.2	53.0	1988
MEAN	67.4	56.8	47.8	43.7	80.0	133	140	118	97.9	91.6	86.6	77.7	88.0	MEAN

LOCATION - LAT 54 03 34 N LONG 94 38 34 W DRAINAGE AREA, 14 000 km² NATURAL FLOW

ISLAND LAKE RIVER NEAR ISLAND LAKE - STATION NO. 04AC007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1933	---	78.7 ON JUN 20	13.7 ON APR 10 *	---	1933
1934	---	227 ON JUN 19	37.8 ON APR 12	3 200 000	1934
1935	---	114 ON NOV 23	43.8 ON APR 18	2 470 000	1935
1936	---	184 ON JUL 7	29.4 ON MAY 24	2 380 000	1936
1937	---	273 ON JUN 26	28.9 ON APR 14	3 560 000	1937
1938	---	162 ON JUL 7	48.4 ON APR 13	2 650 000	1938
1939	---	167 ON JUL 18	26.1 ON APR 20	2 190 000	1939
1940	---	95.7 ON JUN 29	32.0 ON APR 22	1 820 000	1940
1941	---	172 ON JUN 7	34.0 ON APR 16	2 350 000	1941
1942	---	95.7 ON AUG 28	35.1 ON APR 8	1 950 000	1942
1943	---	111 ON JUN 21	31.1 ON APR 19	2 270 000	1943
1944	---	84.4 ON OCT 16	28.7 ON APR 23	1 880 000	1944
1945	---	224 ON JUL 19	42.2 ON MAR 23	3 380 000	1945
1946	---	179 ON JUL 30	43.6 ON APR 7	2 950 000	1946
1947	---	249 ON JUL 11	33.7 ON APR 28	3 710 000	1947
1948	---	88.9 ON JAN 1	24.3E ON DEC 31	1 580 000	1948
1949	---	216 ON OCT 30	18.9 ON APR 8	2 820 000	1949
1950	---	242 ON JUL 30	54.9 ON MAY 4	4 030 000	1950
1951	---	174 ON OCT 17	46.2 ON APR 22	3 410 000	1951
1952	---	247 ON AUG 4	46.7 ON APR 14	4 490 000	1952
1953	---	238 ON JUL 18	51.5 ON APR 22	3 470 000	1953
1954	---	128 ON JUL 7	37.4 ON MAY 7	2 370 000	1954
1955	---	183 ON JUL 19	41.9 ON APR 8	3 330 000	1955
1956	---	172 ON JUN 26	43.3 ON MAY 2	2 640 000	1956
1957	---	177 ON JUL 13	37.7 ON APR 19	2 710 000	1957
1958	---	129 ON JUN 18	33.4 ON MAR 30	2 390 000	1958
1959	---	300 ON JUN 30 *	41.3 ON APR 25	4 180 000	1959
1960	---	152 ON JUN 18	43.9 ON MAY 3	2 400 000	1960
1961	---	62.0 ON JUN 11	28.4 ON APR 16	1 310 000	1961
1962	---	125 ON JUN 16	27.4 ON APR 26	1 920 000	1962
1963	---	179 ON JUN 26	43.3 ON MAR 26	2 830 000	1963
1964	---	166 ON JUN 2	37.7 ON APR 9	2 380 000	1964
1965	---	---	32.8 ON MAR 22	---	1965
1966	---	212 ON JUL 5	75.3 ON DEC 30	3 670 000	1966
1967	---	292 E ON JUN 19	45.0 ON MAR 24	3 780 000	1967
1968	---	196 ON AUG 2	35.7 ON APR 15	3 570 000	1968
1969	227 AT 15:58 CST ON OCT 23 *	237 ON OCT 23	48.1 ON APR 14	3 570 000	1969
1970	165 AT 08:48 CST ON JUL 28	184 ON JUL 21	54.7 ON APR 22	3 420 000	1970
1971	---	167 ON JUN 8	59.8E ON DEC 21	3 280 000	1971
1972	138 AT 21:38 CST ON JUN 13	135 ON JUN 16	32.3 ON APR 14	2 170 000	1972
1973	160 AT 23:30 CST ON JUL 11	158 ON JUL 8	35.1 ON APR 3	2 710 000	1973
1974	140 AT 03:50 CST ON JUN 21	139 ON JUN 19	49.8 ON APR 25	2 520 000	1974
1975	165 AT 01:11 CST ON JUN 27	184 ON JUN 25	41.1 ON APR 16	3 080 000	1975
1976	---	---	---	---	1976
1977	83.0 AT 17:49 CST ON SEP 18	83.0 ON OCT 8	29.4E ON APR 5	1 760 000	1977
1978	137 AT 20:17 CST ON NOV 16	136 ON NOV 16	43.0 ON MAR 23	2 460 000	1978
1979	229 AT 18:30 CST ON JUN 27	228 ON JUN 26	53.8 ON APR 15	3 830 000	1979
1980	---	---	---	---	1980
1981	---	85.9E ON JUL 18	36.9 ON APR 19	1 940 000	1981
1982	140 AT 18:30 CST ON JUN 23	138 ON JUN 23	---	---	1982
1983	209 AT 13:46 CST ON JUL 16	202 ON JUL 15	48.5 ON APR 20	3 280 000	1983
1984	126 AT 06:44 CST ON JUN 30	124 ON JUN 28	44.8 ON APR 5	2 280 000	1984
1985	---	---	---	---	1985
1986	187 AT 13:42 CST ON JUN 2	185 ON MAY 29	48.9 ON APR 13	2 540 000	1986
1987	110 AT 20:50 CST ON SEP 18	109 ON SEP 18	41.8 ON APR 6	2 330 000	1987
1988	98.5 AT 05:17 CST ON JUN 12	97.2 ON JUN 30	27.4 ON NOV 9	1 680 000	1988
				2 780 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	---	---	0.378	0.289	0.004	0	0.003	0.003	0	0	---	1983
1984	0.007	0.011	0.011	0.306	0.448	0.603	0	0	0	0	0	0	0.086	1984
1985	0	0	0	0.067	0.638	0.353	0.020	0.193	0.531	0.192	0.081	0.054	0.167	1985
1986	0.030	0.027	0.026	0.223	0.810	0.281	0.104	0.038	0.013	0	0	0	0.130	1986
1987	0	0	0	0	0.638	0.885	0.014	0.003	0	0.001	0.006	0.007	0.085	1987
1988	0	0	0	0	0.387	0.283	0.278	0.084	0.414	0.055	0.046	0.033	0.134	1988
1989	0.022	0.027	0.026	0.179	0.177	0.456	0.762	0.068	0.026	0.037	0.062	0.029	0.159	1989
1990	0	0	0	0	1.19	0.301	0.150	0.018	0.026	0.083	0.286	0.111	0.179	1990
MEAN	0.008	0.009	0.009	0.109	0.585	0.248	0.169	0.051	0.127	0.044	0.054	0.028	0.129	MEAN

LOCATION - LAT 50 53 20 N
LONG 100 03 48 W

DRAINAGE AREA, 18.9 km^2
NATURAL FLOW

JACKFISH CREEK AT OUTLET OF MOON LAKE - STATION NO. 05MF022

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	---	---	---	
1984	---	1.77 ON APR 28	0E ON AUG 1 *	---	1983
			0 ON JUL 1	2 070	1984
1985	---	1.39 ON MAY 2	0E ON JAN 1	5 270	1985
1986	---	1.30 ON MAY 19	0E ON SEP 23	4 100	1986
1987	---	1.83 ON MAY 20	0E ON JAN 1	2 040	1987
1988	---	2.34 ON MAY 25	0E ON JAN 1	4 220	1988
1989	---	2.60E ON JUN 29 *	0 ON MAY 7	5 010	1989
1990	---	2.29 [illegible] MAY 15	0E ON JAN 1	5 640	1990
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 090	MEAN

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.058	---	---	---	---	---	---	---	---	1936
1975	---	---	0	2.88	1.88	0.713	0.085	0	0.052	0.550	---	---	0.737	1975
1976	---	---	0.006	15.9	0.815	0.044	0.027	0	0	0	---	---	2.20	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.005	0	0	0	0	0	0	---	---	0.001	1978
1979	---	---	0	0.244	0.343	0.003	0	0	0	0	---	---	0.074	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.173	0.008	0	0	0	0	0	---	---	0.022	1982
1983	---	---	0.022	0.881	0.088	0.003	0	0	0	0	---	---	0.121	1983
1984	---	---	0	0	0.002	0	0	0	0	0	---	---	0	1984
1985	---	---	0.341	0.102	0.004	0	0	0	0	0	---	---	0.058	1985
1986	---	---	0.072	0.238	0.272	0.008	0.005	0.001	0	0	---	---	0.075	1986
1987	---	---	0.288	0.610	0	0	0	0	0	0	---	---	0.111	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
MEAN	---	---	0.052	1.58	0.235	0.065	0.008	0	0.004	0.039	---	---	0.243	MEAN

LOCATION - LAT 49 18 00 N, LONG 100 57 50 W. DRAINAGE AREA, 480 km^2. NATURAL FLOW

JACKSON CREEK NEAR MELITA - STATION NO. 05NF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1975	---	10.6 ON APR 29	0B ON MAR 1 *	15 800	1975
1976	---	38.2 B ON APR 11 *	0 ON JUL 21	48 800	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.0459 ON APR 10	0B ON MAR 1	15.7	1978
1979	2.15 AT 08:00 CST ON APR 22	1.84 ON APR 22	0B ON MAR 1	1 560	1979
1980	---	0 B ON MAR 1	0B ON MAR 1	0	1980
1981	---	0 B ON MAR 1	0B ON MAR 1	0	1981
1982	0.954 AT 10:00 CST ON APR 17	0.783 ON APR 17	0B ON MAR 1	472	1982
1983	3.35 B AT 07:34 CST ON APR 13	1.65 B ON APR 13	0B ON MAR 1	2 650	1983
1984	0.019 AT 12:48 CST ON MAY 7	0.012 ON MAY 9	0B ON MAR 1	4.93	1984
1985	---	2.50 B ON MAR 17	0B ON MAR 1	1 190	1985
1986	0.788 AT 08:44 CST ON MAR 29	0.701 ON MAY 12	0B ON MAR 1	1 580	1986
1987	4.38 B AT 10:00 CST ON APR 6 *	2.99 B ON MAR 23	0B ON MAR 1	2 380	1987
1988	0 B AT 00:01 CST ON MAR 1	0 B ON MAR 1	0B ON MAR 1	0	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 140	MEAN

JORDAN CREEK DRAIN NEAR PLUMAS - STATION NO. 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.71	0.549	0.038	0	0	0	0	---	---	0.283	1980
1981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.382	0.172	0.073	0	0	0	0	---	---	0.078	1982
1983	---	---	0.017	0.327	0.083	0.261	0.046	0	0	0	---	---	0.100	1983
1984	---	---	0	0.046	0.021	0.001	0	0	0	0	---	---	0.006	1984
1985	---	---	0	1.34	0.187	0.074	0.002	0	0.042	0.012	---	---	0.202	1985
1986	---	---	0.253	1.05	0.333	0.026	0.002	0.001	0	0	---	---	0.206	1986
1987	---	---	0	1.21	0.811	0.021	0	0	0	0	---	---	0.263	1987
1988	---	---	0.022	0.020	0.010	0.001	0	0.018	0.035	0.002	---	---	0.013	1988
1989	---	---	0	1.83	0.188	0.058	0.276	0.131	0.043	0.036	---	---	0.316	1989
1970	---	---	0	2.78	2.70	0.158	0.017	0	0	0	---	---	0.705	1970
1971	---	---	0	0.186	0.029	0.841	0.903	0.078	0.003	0.080	---	---	0.258	1971
1972	---	---	0.198	1.52	0.152	0.013	0	0	0	0	---	---	0.322	1972
1973	---	---	0.010	0.001	0.005	0.002	0	0	0	0	---	---	0.002	1973
1974	---	---	0	2.47	2.58	0.154	0	0	0	0	---	---	0.548	1974
1975	---	---	0	0.222	0.130	0.016	0.058	0.124	0.722	0.436	---	---	0.212	1975
1976	---	---	0	4.30	0.227	0.001	0.008	0	0	0	---	---	0.585	1976
1977	---	---	0	0	0.001	0	0.001	0	0.001	0.001	---	---	0.001	1977
1978	---	---	0	0.185	0.028	0.008	0.002	0	0	0	---	---	0.024	1978
1979	---	---	0	2.07	2.50	0.113	0.002	0	0	0	---	---	0.584	1979
1980	---	---	0	0.028	0	0	0	0.007	0.008	0.012	---	---	0.007	1980
1981	---	---	0.002	0.004	0.008	0.035	0.015	0	0	0.004	---	---	0.008	1981
1982	---	---	0.084	0.587	0.041	0.021	0.008	0.005	0	0.003	---	---	0.090	1982
MEAN	---	---	0.025	0.986	0.488	0.068	0.058	0.018	0.037	0.025	---	---	0.208	MEAN

LOCATION - LAT 50 23 25 N DRAINAGE AREA, 49.7 km²
LONG 99 02 44 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "JORDAN CREEK NEAR PLUMAS"

JORDAN CREEK DRAIN NEAR PLUMAS - STATION NO. 05LL008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1980	---	0.88 ON APR 18	0B ON MAR 1 *	5 990	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	---	2.02 B ON APR 21	0B ON MAR 1	1 880	1982
1983	---	1.80 ON JUN 10	0B ON MAR 1	2 120	1983
1984	---	0.2948 ON APR 11	0B ON MAR 1	177	1984
1985	---	4.73 B ON APR 13	0B ON MAR 1	4 270	1985
1986	---	4.84 B ON APR 1	0B ON MAR 1	4 380	1986
1987	---	3.46 ON APR 29	0B ON MAR 1	5 350	1987
1988	---	0.3238 ON MAR 28	0B ON MAR 1	284	1988
1989	---	6.40 ON APR 11	0B ON MAR 1	8 880	1989
1970	---	10.5 ON APR 29	0B ON MAR 1	14 800	1970
1971	---	3.06 ON JUN 21	0B ON MAR 1	5 480	1971
1972	---	4.33 B ON APR 13	0B ON MAR 1	4 920	1972
1973	---	0.0318 ON MAR 20	0B ON MAR 1	45.8	1973
1974	---	11.0 ON APR 18 *	0B ON MAR 1	13 700	1974
1975	---	3.34 ON SEP 20	0B ON MAR 1	4 480	1975
1976	---	10.8 B ON APR 7	0B ON MAR 1	11 700	1976
1977	---	0.008 ON JUL 18	0B ON MAR 1	10.7	1977
1978	---	0.5078 ON APR 18	0B ON MAR 1	508	1978
1979	8.16 AT 03:00 CST ON APR 30 *	7.89 ON APR 30	0B ON MAR 1	12 400	1979
1980	0.116 AT 11:27 CST ON AUG 23	0.088 ON APR 17	0B ON MAR 1	144	1980
1981	---	0.104 ON JUN 28	0B ON MAR 1	178	1981
1982	---	1.36 B ON APR 18	0B ON MAR 1	1 800	1982
				4 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.478	14.6	8.14	2.89	3.65	0.535	3.02	0.261	---	---	4.33	1966
1967	---	---	0.316	16.2	7.11	0.407	0.077	0.024	0.008	0.042	---	---	2.89	1967
1968	---	---	0.140	0.491	0.570	0.505	0.832	0.865	1.07	0.294	---	---	0.577	1968
1969	---	---	0.092	7.76	1.94	0.333	0.178	0.084	0.048	0.057	---	---	1.29	1969
1970	---	---	0.028	8.75	12.9	5.25	0.239	0.042	0.055	0.119	---	---	3.16	1970
1971	---	---	0	3.02	0.815	0.058	0.030	0.016	0.003	0.058	---	---	0.484	1971
1972	---	---	0.276	0.870	0.334	0.064	0.010	0.019	0.007	0.061	---	---	0.180	1972
1973	---	---	0.297	0.124	0.088	0.044	0.018	0.002	0.020	0.153	---	---	0.095	1973
1974	---	---	0	11.1	13.1	3.94	0.193	0.038	0.016	0.044	---	---	3.54	1974
1975	---	---	0.083	0.258	0.277	0.417	1.02	0.017	0.007	0.018	---	---	0.282	1975
1976	---	---	0.005	0.547	0.068	0.189	0.010	0	0	0	---	---	0.104	1976
1977	---	---	0.037	0.131	0.033	0.028	0.006	0.003	0.007	0.025	---	---	0.033	1977
1978	---	---	0.131	2.46	0.874	0.081	0.026	0.001	0	0	---	---	0.415	1978
1979	---	---	0.009	3.18	3.06	1.31	0.183	0.024	0.018	0.038	---	---	0.989	1979
1980	---	---	0.050	1.08	0.073	0.002	0	0.001	0.002	0.031	---	---	0.150	1980
1981	---	---	0.147	0.188	0.126	0.048	0.027	0.002	0.001	0.100	---	---	0.080	1981
1982	---	---	0.205	3.20	0.825	1.44	1.87	0.371	0.020	0.741	---	---	1.07	1982
1983	---	---	1.85	5.76	0.703	0.348	0.382	0.003	0.020	0.018	---	---	1.09	1983
1984	---	---	0.272	0.501	0.135	0.871	0.394	0.023	0.004	0.028	---	---	0.288	1984
1985	---	---	0.435	0.517	0.204	0.084	0.058	0.236	0.089	0.304	---	---	0.227	1985
1986	---	---	1.04	5.04	9.35	0.428	0.181	0.086	0.022	0.184	---	---	2.04	1986
1987	---	---	0.273	5.53	0.540	0.088	0.081	0.015	0.004	0.038	---	---	0.809	1987
1988	---	---	0.073	0.398	0.114	0.008	0.003	0.055	0.002	0.004	---	---	0.081	1988
MEAN	---	---	0.258	3.89	2.71	0.829	0.414	0.088	0.192	0.107	---	---	1.08	MEAN

LOCATION - LAT 49 28 28 N DRAINAGE AREA, 340 km²
LONG 96 59 23 W NATURAL FLOW

REMARKS - PUBLISHED AS "JOUBERT CREEK AT ST. PIERRE" PRIOR TO 1979

JOUBERT CREEK AT ST. PIERRE-JOLYS - STATION NO. 05OE007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	28.3 ON APR 7	0 B ON MAR 1 *	91 600	1966
1967	---	27.2 ON APR 22	0 B ON MAR 1	83 300	1967
1968	---	4.16 ON MAY 15	0 B ON MAR 1	12 200	1968
1969	---	15.8 ON APR 19	0.028 ON AUG 18	27 300	1969
1970	---	19.6 ON APR 28	0.0288 ON MAR 1	88 900	1970
1971	---	6.82 B ON APR 12	0 B ON MAR 1	10 800	1971
1972	---	1.89 B ON APR 16	0 B ON MAR 1	3 800	1972
1973	---	1.54 B ON MAR 13	0 B ON MAR 1	2 010	1973
1974	---	34.5 ON APR 23 *	0 B ON MAR 1	75 000	1974
1975	---	8.38 ON JUL 1	0.002 ON SEP 17	5 550	1975
1976	---	3.96 B ON APR 5	0 B ON MAR 1	2 210	1976
1977	---	0.4308 ON MAR 30	0 ON JUL 1	701	1977
1978	---	5.38 B ON APR 10	0 ON AUG 9	8 780	1978
1979	18.4 AT 17:49 CST ON APR 20	15.4 ON APR 20	0 ON AUG 15	20 500	1979
1980	4.02 AT 17:02 CST ON APR 5	3.36 B ON APR 5	0 ON JUN 13	3 170	1980
1981	0.884 AT 04:03 CST ON MAY 28	0.884 ON MAY 28	0 ON JUN 12	1 880	1981
1982	---	5.80 B ON APR 15	0 ON OCT 2	22 700	1982
1983	14.1 B AT 06:10 CST ON APR 8	12.6 B ON APR 8	0 ON JUL 24	23 000	1983
1984	2.94 AT 08:02 CST ON JUN 9	2.38 ON JUN 9	0 E ON AUG 28	8 110	1984
1985	2.53 B AT 09:26 CST ON MAR 26	2.40 B ON MAR 26	0 ON JUL 26	4 820	1985
1986	21.3 AT 23:54 CST ON MAY 5 *	19.3 ON MAY 6	0.0018 ON MAR 1	43 200	1986
1987	12.2 AT 05:53 CST ON APR 7	11.9 B ON APR 7	0 B ON MAR 1	17 100	1987
1988	---	1.47 B ON APR 8	0 B ON MAR 1	1 720	1988
				22 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KENTON CREEK AT KENTON - STATION NO. 05MD005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	0.288	0	0	0	0.010	0	0	---	---	0.034	1962
1963	---	---	0.188	0.027	0.020	0.232	0	0.008	0	0	---	---	0.057	1963
1964	---	---	0	0.248	0.011	0	0	0	0	0	---	---	0.032	1964
1965	---	---	0	0.780	0.001	0.001	0.354	0	0.005	0	---	---	0.139	1965
1966	---	---	0.133	0.088	0.037	0	0	0	0	0	---	---	0.034	1966
1967	---	---	0	0.367	0.008	0	0	0	0	0	---	---	0.048	1967
1968	---	---	0.132	0.005	0	0	0	0	0	0	---	---	0.017	1968
1969	---	---	0	1.28	0.009	0	0.003	0.001	0	0	---	---	0.155	1969
1970	---	---	0	0.591	0.023	0	0	0	0	0	---	---	0.075	1970
1971	---	---	0.008	0.081	0	0.124	0.002	0	0	0	---	---	0.024	1971
1972	---	---	0.260	0.281	0.002	0	0	0	0	0	---	---	0.088	1972
1973	---	---	0.014	0	0	0	0	0	0	0	---	---	0.002	1973
1974	---	---	0	0.852	0.049	0	0	0	0	0	---	---	0.112	1974
1975	---	---	0	0.808	0.058	0.012	0	0	0	0	---	---	0.108	1975
1976	---	---	0	1.08	0.003	0.010	0.001	0	0	0	---	---	0.134	1976
1977	---	---	0.004	0.002	0.001	0	0	0	0	0	---	---	0.001	1977
1978	---	---	0.047	0.122	0.003	0	0.001	0	0	0	---	---	0.021	1978
1979	---	---	0	0.598	0.028	0.001	0	0	0	0	---	---	0.078	1979
1980	---	---	0	0.027	0	0	0	0	0	0	---	---	0.003	1980
1981	---	---	0.008	0	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.008	0.155	0	0	0	0	0	0	---	---	0.020	1982
1983	---	---	0	0.437	0.002	0	0	0	0	0	---	---	0.064	1983
1984	---	---	0.003	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.135	0.040	0	0	0	0	0	0	---	---	0.022	1985
1986	---	---	0.333	0.097	0.134	0.018	0.024	0	0	0	---	---	0.078	1986
1987	---	---	0.071	0.364	0	0	0	0	0	0	---	---	0.064	1987
1988	---	---	0.001	0.013	0	0	0	0	0	0	---	---	0.002	1988
MEAN	---	---	0.049	0.317	0.014	0.015	0.014	0.001	0	0	---	---	0.051	MEAN

LOCATION - LAT 49 58 24 N
LONG 100 38 39 W
DRAINAGE AREA, 45.8 km²
NATURAL FLOW

KENTON CREEK AT KENTON - STATION NO. 05MD005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	4.11 ON APR 15	0 ON MAR 1 *	724	1962
1963	---	4.30 ON JUN 9	0E ON MAR 1	1 200	1963
1964	---	2.67 ON APR 4	0E ON MAR 1	878	1964
1965	---	8.44 ON JUL 20	0E ON MAR 1	2 930	1965
1966	---	1.42 ON MAR 31	0E ON MAR 1	709	1966
1967	---	1.21 E ON APR 9	0E ON MAR 1	973	1967
1968	---	0.8648 ON MAR 28	0E ON MAR 1	387	1968
1969	---	8.50 E ON APR 12 *	0E ON MAR 1	3 280	1969
1970	---	1.74 ON APR 17	0E ON MAR 1	1 590	1970
1971	---	1.88 ON JUN 15	0E ON MAR 1	508	1971
1972	---	1.50 ON APR 8	0E ON MAR 1	1 400	1972
1973	---	0.064 ON MAR 13	0E ON MAR 1	38.1	1973
1974	---	6.34 E ON APR 16	0E ON MAR 1	2 380	1974
1975	---	4.82 ON APR 28	0E ON MAR 1	2 280	1975
1976	---	8.91 ON APR 9	0E ON MAR 1	2 840	1976
1977	---	0.016 ON MAR 26	0E ON MAR 1	16.6	1977
1978	---	0.891 ON MAR 31	0E ON MAR 1	451	1978
1979	---	3.97 ON APR 19	0E ON MAR 1	1 810	1979
1980	---	0.303 ON APR 6	0E ON MAR 1	70.0	1980
1981	---	0.0388 ON MAR 14	0 ON MAR 28	22.4	1981
1982	---	1.13 E ON APR 12	0E ON MAR 1	425	1982
1983	3.83 E AT 19:45 CST ON APR 8	2.47 E ON APR 10	0E ON MAR 1	1 140	1983
1984	---	0.0358 ON MAR 26	0E ON MAR 1	9.33	1984
1985	1.87 AT 15:41 CST ON MAR 21	0.8568 ON MAR 21	0E ON MAR 1	485	1985
1986	2.86 E AT 21:26 CST ON MAR 23	2.62 E ON MAR 23	0E ON MAR 1	1 020	1986
1987	3.96 AT 17:26 CST ON APR 4 *	3.67 E ON APR 4	0E ON MAR 1	1 130	1987
1988	0.196 AT 17:16 CST ON APR 2	0.150 ON APR 3	0E ON MAR 1	34.7	1988
				1 070	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	11.6	8.55	3.48	3.73	---	---	---	1953
1954	---	---	---	---	35.5	13.2	3.14	2.12	11.6	8.83	4.90	3.03	---	1954
1955	---	---	---	---	38.1	19.8	11.9	4.87	8.71	13.5	9.58	7.80	---	1955
1956	3.63	1.84	0.869	0.422	39.4	28.5	12.7	6.88	4.46	4.01	2.80	1.58	9.02	1956
1957	0.878	---	---	---	---	39.3	15.8	5.31	1.18	1.79	1.78	---	---	1957
1958	---	0.435	0.387	0.301	22.7	---	---	---	---	---	7.84	5.84	---	1958
1959	1.53	0.852	0.484	2.37	4.48	13.8	11.8	8.38	42.4	29.5	8.04	5.18	10.7	1959
1960	2.04	0.870	0.800	1.14	32.3	50.7	24.6	13.8	18.5	27.8	40.0	8.88	19.3	1960
1961	3.45	1.17	0.870	24.8	41.1	43.7	45.2	34.3	15.8	15.1	14.5	8.89	20.8	1961
1962	4.24	1.27	0.685	2.15	52.2	27.8	11.6	5.08	13.2	21.1	11.3	5.52	13.1	1962
1963	1.73	1.02	0.788	0.844	30.8	18.3	4.52	0.840	0.741	4.70	8.72	5.39	8.22	1963
1964	1.83	0.859	0.728	3.85	25.7	17.8	11.5	20.3	27.3	14.7	5.52	3.22	11.2	1964
1965	2.33	0.892	0.188	2.73	29.9	21.6	8.32	11.8	21.5	24.0	10.7	3.91	11.8	1965
1966	1.88	0.904	0.883	6.17	41.4	18.9	38.6	21.8	24.9	23.2	10.6	4.16	15.8	1966
1967	2.34	1.58	1.01	21.2	31.1	15.1	5.50	2.13	10.8	19.4	13.1	5.23	10.8	1967
1968	1.30	0.918	0.748	0.885	36.4	25.3	27.3	27.8	31.6	41.9	16.6	5.76	18.0	1968
1969	2.00	0.895	0.538	0.577	18.9	44.4	29.8	11.9	7.72	11.2	7.25	3.85	11.8	1969
1970	1.74	0.973	0.838	9.88	25.5	---	---	---	52.6	31.1	9.30	5.03	---	1970
1971	3.88	2.08	1.63	1.13	50.2	26.3	10.3	9.82	4.75	21.4	11.1	3.50	12.3	1971
1972	1.58	0.758	0.632	0.810	52.6	27.4	8.24	5.21	9.83	14.1	8.83	5.57	12.2	1972
1973	3.65	2.68	2.04	1.70	28.8	112	13.8	6.83	33.5	33.6	15.2	8.48	21.6	1973
1974	3.63	2.12	1.37	16.9	55.7	29.6	8.92	1.78	1.58	4.25	3.72	2.74	10.9	1974
1975	1.77	0.948	0.858	7.08	51.2	52.4	33.9	5.64	2.04	5.71	5.70	2.88	14.2	1975
1976	1.28	0.710	0.330	0.324	84.9	38.8	42.2	44.8	28.1	16.8	8.42	3.13	22.3	1976
1977	2.00	1.68	1.53	17.1	42.3	16.5	3.04	1.37	4.33	8.03	4.14	2.26	8.47	1977
1978	1.38	0.848	0.801	0.810	82.5	47.9	14.1	5.52	4.50	4.78	4.34	2.87	12.6	1978
MEAN	2.28	1.18	0.812	5.58	38.3	32.7	16.9	11.1	15.4	16.1	9.58	4.69	13.6	MEAN

LOCATION - LAT 58 20 40 N DRAINAGE AREA, 1 980 km²
LONG 94 41 00 W NATURAL FLOW

KETTLE RIVER NEAR GILLAM - STATION NO. 05UF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1953	---	---	---	---	1953
1954	---	54.7 ON MAY 8	---	---	1954
1955	---	59.5 ON MAY 10	0 ON APR 23 *	---	1955
1956	---	92.38 ON MAY 27	0 B ON DEC 12	285 000	1956
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	73.5E ON SEP 15	0.345 ON APR 2	338 000	1959
1960	---	78.8 ON MAY 31	0.510 ON APR 3	608 000	1960
1961	---	83.1E ON JUL 10	0.7258 ON APR 8	888 000	1961
1962	---	84.0 ON MAY 12	0.0852 ON APR 7	414 000	1962
1963	48.8 AT 18:00 CST ON MAY 20	46.7 ON MAY 20	0.503 ON SEP 24	186 000	1963
1964	33.7 AT 16:15 CST ON SEP 3	33.4 ON SEP 2	0.4788 ON MAR 31	352 000	1964
1965	39.1 AT 09:50 CST ON MAY 8	38.5 ON MAY 9	0.0748 ON APR 9	385 000	1965
1966	63.1 AT 17:30 CST ON JUL 16	62.0 ON JUL 16	0.8388 ON APR 10	500 000	1966
1967	60.3 AT 03:05 CST ON APR 25	56.4 ON APR 24	0.9288 ON MAR 23	340 000	1967
1968	52.4 AT 01:44 CST ON OCT 14	50.7 ON OCT 12	0.8718 ON MAR 20	587 000	1968
1969	59.9 AT 16:05 CST ON JUN 7	59.3 ON JUN 7	0.4628 ON APR 5	387 000	1969
1970	---	---	---	---	1970
1971	98.6 AT 07:30 CST ON MAY 19	97.4 ON MAY 19	0.915 ON APR 23	385 000	1971
1972	105 ON MAY 8	104 ON MAY 8	0.5738 ON APR 19	385 000	1972
1973	202 AT 12:00 CST ON JUN 3 *	202 ON JUN 3 *	1.47 B ON MAY 14	887 000	1973
1974	88.6 AT 00:01 CST ON MAY 19	87.0 ON MAY 19	1.08 ON SEP 8	344 000	1974
1975	77.9 AT 07:55 CST ON JUN 28	77.5 ON JUN 28	0.4588 ON APR 3	448 000	1975
1976	185 AT 00:25 CST ON MAY 18	185 ON MAY 18	0.2768 ON MAR 21	704 000	1976
1977	75.7 AT 22:50 CST ON APR 28	70.8 ON APR 28	1.07 ON AUG 24	287 000	1977
1978	103 AT 05:30 CST ON MAY 14	102 ON MAY 14	0.5808 ON MAR 15	395 000	1978
				430 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	427	390	344	---	---	---	---	1971
1972	308	319	280	281	424	487	432	383	320	280	218	256	332	1972
1973	228	206	192	188	---	---	---	---	---	---	---	---	---	1973
MEAN	265	263	238	235	424	487	430	387	332	280	218	256	332	MEAN

LOCATION - LAT 54 15 00 N
LONG 98 17 00 W NATURAL FLOW

KISIPACHEWUK CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	830 AT 05:13 CST ON JUN 13 *	815 ON MAY 22 *	1782 ON OCT 18 *	10 500 000	1972
1973	---	---	---	---	1973
				10 500 000	MEAN

E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05DC024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	0.028	0.003	0	0.015	0.001	0	0.002	0.001	---	---	0.012	1973
1974	---	---	0	3.26	1.02	0.008	---	---	---	---	---	---	1.08	1974
1975	---	---	0	0.158	0.038	0.058	---	---	---	---	---	---	0.052	1975
1976	---	---	0	0.713	0	0	---	---	---	---	---	---	0.175	1976
1977	---	---	0	0.037	0.062	0.011	---	---	---	---	---	---	0.012	1977
1978	---	---	0	0.380	0.002	0	0	0	0.001	---	---	---	0.058	1978
1979	---	---	0	3.87	0.408	0.005	---	---	---	---	---	---	1.08	1979
1980	---	---	0	0.233	0.005	0.002	---	---	---	---	---	---	0.058	1980
1981	---	---	0.073	0.008	0.033	0.001	---	---	---	---	---	---	0.028	1981
1982	---	---	0.018	0.433	0	0.588	---	---	---	---	---	---	0.258	1982
1983	---	---	0.001	0.488	0	0	---	---	---	---	---	---	0.123	1983
1984	---	---	0.013	0.037	0.018	0.037	---	---	---	---	---	---	0.026	1984
1985	---	---	0.588	0.058	0	0	---	---	---	---	---	---	0.167	1985
1986	---	---	0.371	0.378	0.027	0	---	---	---	---	---	---	0.184	1986
1987	---	---	0	1.04	0	0	---	---	---	---	---	---	0.267	1987
1988	---	---	0	0.122	0	0	---	---	---	---	---	---	0.030	1988
MEAN	---	---	0.088	0.703	0.097	0.045	0.001	0	0.002	0.001	---	---	0.225	MEAN

LOCATION - LAT 48 18 50 N
LONG 97 30 20 W
NATURAL FLOW

KRONSGART DRAIN NEAR SEWELL - STATION NO. 05DC024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	0.227 ON JUN 20	0 ON MAR 1 *	123	1973
1974	---	13.3 ON APR 19	0 ON MAR 1	11 200	1974
1975	---	1.88 ON JUN 30	0 ON MAR 1	885	1975
1976	---	8.36 B ON APR 8	0 ON MAR 1	1 880	1976
1977	---	0.3858 ON APR 9	0 ON MAR 1	128	1977
1978	---	1.98 B ON APR 11	0 ON MAR 1	1 020	1978
1979	---	14.1 B ON APR 21 *	0 ON MAR 1	11 100	1979
1980	2.59 B AT 12:51 CST ON APR 8	2.18 B ON APR 8	0 ON MAR 1	821	1980
1981	0.804 AT 10:08 CST ON MAY 25	0.406 ON MAY 25	0 ON MAR 1	311	1981
1982	6.50 AT 09:38 CST ON JUN 7	5.95 ON JUN 7	0 ON MAR 1	2 890	1982
1983	3.92 B AT 13:11 CST ON APR 8	3.30 B ON APR 8	0 ON MAR 1	1 290	1983
1984	0.706 AT 02:18 CST ON JUN 23	0.541 ON JUN 23	0 ON MAR 1	271	1984
1985	5.61 B AT 08:54 CST ON MAR 22	5.13 B ON MAR 22	0 ON MAR 1	1 750	1985
1986	6.33 AT 12:48 CST ON MAR 31	5.86 B ON MAR 31	0 ON MAR 1	2 050	1986
1987	13.2 AT 04:30 CST ON APR 7 *	11.4 B ON APR 7	0 ON MAR 1	2 710	1987
1988	---	1.88 B ON APR 4	0 ON MAR 1	317	1988
				2 380	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER AT LA SALLE - STATION NO. 05DG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1935	---	---	---	---	0.574	0.231	1.15	0.155	0.047	0.007	---	---	---	1935
1936	---	---	---	---	2.26	0.483	0.088	0.004	---	---	---	---	---	1936
MEAN	---	---	---	---	1.42	0.347	0.610	0.080	0.047	0.007	---	---	---	MEAN

LOCATION - LAT 49 41 48 N
LONG 97 15 42 W
DRAINAGE AREA, 2 390 km^2
NATURAL FLOW

LA SALLE RIVER NEAR ELIE - STATION NO. 05DG008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	4.23	3.79	0.081	0.016	0	0	0	---	---	1.01	1978
1980	---	---	0	0.289	0.024	0.005	0.008	0.002	0.001	0.121	---	---	0.057	1980
1981	---	---	0.228	0.040	0.007	0.002	0.003	0.002	0.002	0.002	---	---	0.036	1981
1982	---	---	0.001	0.791	0.084	0.002	0.002	0.001	0	0	---	---	0.108	1982
1983	---	---	0.009	2.75	0.075	0.042	0.007	0.001	0.001	0	---	---	0.354	1983
1984	---	---	0.011	0.086	0.037	2.49	0.116	0.003	0.001	0.020	---	---	0.337	1984
1985	---	---	0.815	1.85	0.142	---	---	0.650	0.083	0.184	---	---	---	1985
1986	---	---	0.850	2.71	3.19	0.027	0.744	0.225	0.010	0.157	---	---	0.990	1986
1987	---	---	0	4.63	0.189	0.313	0.281	0.684	0.260	0.386	---	---	0.835	1987
1988	---	---	0.722	0.950	---	---	0.158	0.145	0.074	0.184	---	---	---	1988
MEAN	---	---	0.284	1.83	0.835	0.368	0.148	0.171	0.045	0.103	---	---	0.488	MEAN

LOCATION - LAT 49 53 13 N DRAINAGE AREA, 198 km²
LONG 97 45 54 W NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR ELIE - STATION NO. 05DG008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	---	17.0 ON MAY 2 *	0B ON MAR 1 *	21 400	1978
1980	---				
1981	0.439 AT 09:04 CST ON MAR 31	1.01 ON APR 17	0B ON MAR 1	1 210	1980
1982	2.80 AT 22:17 CST ON APR 14	0.4278 ON MAR 12	0 ON MAY 28	761	1981
1983	10.5 AT 04:28 CST ON APR 9	2.87 ON APR 14	0B ON MAR 1	2 240	1982
1984	11.0 AT 11:47 CST ON JUN 22	8.95 ON APR 9	0 ON SEP 19	7 480	1983
1985	---	10.4 ON JUN 22	0B ON MAR 1	7 130	1984
1986	---	---	---	---	1985
1987	14.6 AT 18:31 CST ON APR 10 *	15.2 ON MAY 7	0B ON MAR 1	20 800	1986
1988	---	14.6 A ON APR 8	0B ON MAR 1	17 700	1987
		4.36 B ON MAR 31	---	---	1988
				8 850	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER NEAR SANFORD - STATION NO. 05DG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	2.84	1.38	0.155	0.343	0.388	0.255	---	---	---	---	1922
1923	---	---	---	---	20.4	1.35	1.28	0.281	---	---	---	---	---	1923
1924	---	---	---	---	3.22	0.088	0.047	0.017	0	---	---	---	---	1924
1925	---	---	3.78	19.7	0.578	2.85	1.19	0.118	0.070	---	---	---	---	1925
1927	---	---	---	---	18.1	3.32	1.65	0.381	0.211	---	---	---	---	1927
1928	---	---	---	3.41	0.244	2.85	3.78	0.285	0.068	---	---	---	---	1928
1929	---	---	---	---	0.089	0.178	0.283	0.222	0.260	---	---	---	---	1929
1930	---	---	---	7.83	1.39	0.070	---	---	---	---	---	---	---	1930
1934	---	---	---	13.0	0.804	---	---	---	---	---	---	---	---	1934
1956	---	---	---	25.4	24.5	0.384	0.434	0.188	1.17	0.720	0.824	0.028	---	1956
1957	0.054	0.034	2.80	8.76	0.427	0.370	0.241	0.103	0.291	0.088	0.018	0	0.803	1957
1958	0	0	0.870	0.828	0.122	0.085	1.50	0.036	0.003	---	---	---	---	1958
1966	---	---	---	---	---	---	---	---	---	0	0	0	---	1966
1967	0	0	0	39.8	3.83	0	0	0	0	0.003	0	0	3.61	1967
1968	0	0	0.884	1.74	0.180	0.058	0.788	10.5	2.91	0.178	0.055	0.001	1.45	1968
1969	0	0	0	28.4	5.88	3.30	10.7	1.87	0.157	0.188	0	0	4.18	1969
1970	0	0	0	35.5	25.8	0.473	0.033	0	0	0	0	0	5.15	1970
1971	0	0	0	17.2	0.898	0.088	0.041	0	0	0	0	0	1.51	1971
1972	0	0	0.044	20.3	0.850	0.016	0.008	0	0	0	0	0	1.72	1972
1973	0	0	3.38	0.638	0.196	1.17	0.126	0.187	0	0	0	0	0.477	1973
1974	0	0	0	48.0	41.4	1.41	0	0	0	0	0	0	7.88	1974
1975	0	0	0	13.5	3.95	0.181	0.183	0	0	0	0	0	1.48	1975
1976	0	0	0.002	27.9	0.215	1.07	0.037	0.027	0.010	0.026	0.248	0.158	2.44	1976
1977	0.025	0.015	0.018	1.03	0.186	0.051	1.78	0.011	3.33	0.321	0.010	0.008	0.563	1977
1978	0.008	0.008	0.049	20.8	7.07	0.348	0.115	0.024	0.226	0.053	0.013	0.008	2.38	1978
1979	0.008	0.007	0.015	37.6	48.8	1.84	0.445	0.108	0.004	0	0.004	0	7.41	1979
1980	0	0	0.002	2.64	0	0	0	0	0	0	0.220	0	0.235	1980
1981	0	0.012	1.16	0.520	0.156	0.024	0.005	0	0	0	0.001	0.001	0.158	1981
1982	0	0	0.350	6.32	0.045	0.001	0.011	0.002	0.004	0.002	0	0	0.554	1982
1983	0	0	0.484	20.5	0.008	1.55	0.048	0	0	0	0	0	1.86	1983
1984	0	0	0.069	1.28	0.276	7.05	0.158	0.001	0.001	0.095	0.038	0.143	0.747	1984
1985	0.065	0.039	7.55	11.1	0.330	0.022	0.088	8.83	0.705	0.738	0.959	0.737	2.62	1985
1986	0.170	0.051	8.63	25.9	20.9	0.283	4.90	0.280	0.188	0.219	0.144	0.090	5.17	1986
1987	0.088	0.061	0.052	33.2	0.285	0.318	0.185	1.37	0.281	0.358	0.285	0.379	3.04	1987
1988	0.205	0.238	0.334	2.98	0.138	0.021	0.025	0.007	0.372	0.576	0.388	0.285	0.457	1988
MEAN	0.028	0.019	1.20	15.9	8.83	0.923	0.956	0.769	0.339	0.142	0.120	0.073	2.42	MEAN

LOCATION - LAT 49 40 45 N DRAINAGE AREA, 1 900 km²
LONG 97 25 46 W REGULATED SINCE 1984

REMARKS - MISC. MEASUREMENTS WERE ALSO OBTAINED IN 1915, 1916, 1920, 1932, AND 1933

LA SALLE RIVER NEAR SANFORD - STATION NO. 05DG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	8.14 ON APR 10	---	---	1923
1924	---	64.4 ON APR 29	---	---	1924
1925	---	---	0 ON JUL 15 *	---	1925
1927	---	---	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1934	---	26.8 ON APR 12	0 ON MAY 1	---	1934
1956	---	50.4 ON APR 12	0 ON MAY 27	---	1956
1957	---	113 ON MAY 2	0 ON JUN 26	---	1957
1958	---	15.8 B ON APR 1	0 B ON NOV 28	28 500	1958
1966	---	5.61 ON JUL 6	0 B ON JAN 1	---	1966
1967	---	---	0 ON OCT 1	---	1967
1968	---	90.5 ON APR 22	0 B ON JAN 1	113 000	1968
1969	---	80.9 ON AUG 27	0 B ON JAN 1	46 000	1969
1970	---	106 ON APR 13	0 B ON JAN 1	132 000	1970
1971	---	125 B ON APR 26 *	0 B ON JAN 1	183 000	1971
1972	---	58.9 B ON APR 12	0 B ON JAN 1	47 800	1972
1973	---	88.6 ON APR 18	0 B ON JAN 1	54 500	1973
1974	---	10.9 B ON MAR 24	0 B ON JAN 1	15 000	1974
1975	---	123 ON APR 24	0 B ON JAN 1	242 000	1975
1976	---	53.5 ON APR 30	0 B ON JAN 1	46 800	1976
1977	---	89.6 ON APR 10	0 B ON JAN 1	77 100	1977
1978	---	16.1 ON SEP 11	0.002 ON AUG 19	17 800	1978
1979	119 B AT 22:05 CST ON APR 25 *	58.6 ON APR 17	0.0068 ON JAN 4	75 200	1979
1980	9.62 AT 13:00 CST ON APR 19	119 B ON APR 26	0 ON AUG 26	233 000	1980
1981	---	9.21 ON APR 19	0 B ON JAN 1	7 430	1981
1982	30.8 B AT 09:05 CST ON APR 18	4.628 ON MAR 28	0 B ON JAN 1	4 870	1982
1983	89.7 B AT 08:47 CST ON APR 8	30.2 B ON APR 16	0 B ON JAN 1	17 500	1983
1984	25.3 AT 17:09 CST ON JUN 18	89.1 B ON APR 6	0 B ON JAN 1	58 700	1984
1985	48.8 B AT 08:39 CST ON APR 5	25.0 ON JUN 19	0 B ON JAN 1	23 800	1985
1986	108 AT 04:17 CST ON APR 2	47.3 B ON APR 6	0.002 ON JUN 16	82 500	1986
1987	114 AT 11:15 CST ON APR 8	108 ON APR 2	0.0208 ON MAR 23	163 000	1987
1988	18.1 B AT 18:45 CST ON APR 5	113 ON APR 8	0.0808 ON FEB 5	85 800	1988
		17.4 B ON APR 5	0 ON AUG 22	14 400	
				75 500	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LA SALLE RIVER NEAR SANFORD - STATION NO. 05DG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	0	0	0	---	1958
1959	0	0	0.008	14.8	2.23	0.227	0.003	0.188	0.038	12.8	3.02	0.081	2.77	1959
1960	0.028	0.037	0.048	25.7	1.90	0.332	0.114	0.021	0.017	0	0	0	2.31	1960
1961	0	0	1.14	7.88	1.14	0	0	0	0	0	0	0	0.849	1961
1962	0	0	0	13.0	4.28	4.31	0.531	17.2	2.64	0.040	0.014	0	3.51	1962
1963	0	0	2.08	7.21	1.48	9.02	0.152	0.001	0	0	0	0	1.68	1963
1964	0	0	0	3.00	0.132	0.805	0.029	0.001	0.052	0.001	0	0	0.314	1964
1965	0	0	0	35.8	2.34	0.588	0	0	0.057	0	0	0	3.17	1965
1966	0	0	0.010	30.2	9.84	0	2.80	0.290	1.87	---	---	---	---	1966
MEAN	0.004	0.005	0.408	17.2	2.89	1.88	0.454	2.21	0.584	1.81	0.379	0.008	2.08	MEAN

LOCATION - LAT 49 39 00 N
LONG 97 23 00 W

DRAINAGE AREA, 2 110 km^2
NATURAL FLOW

REMARKS - PUBLISHED AS "RIVIERE SALE" PRIOR TO 1979

LA SALLE RIVER NEAR SANFORD - STATION NO. 05DG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	0 ON OCT 1 *	---	1958
1959	---	49.68 ON APR 8	0B ON JAN 1	87 300	1959
1960	---	75.8 ON APR 13	0 ON JUL 20	73 200	1960
1961	---	23.88 ON APR 11	0B ON JAN 1	25 800	1961
1962	---	71.18 ON APR 28	0 ON JAN 1	111 000	1962
1963	---	54.7 ON JUN 6	0B ON JAN 1	52 000	1963
1964	---	15.08 ON APR 18	0 ON JAN 1	9 830	1964
1965	---	115 B ON APR 16 *	0B ON JAN 1	100 000	1965
1966	---	88.88 ON APR 14	0B ON JAN 1	---	1966
				65 700	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	27.7	34.8	28.3	35.0	37.1	24.1	30.8	30.4	37.7	38.1	34.0	28.8	32.0	1978
1979	30.6	---	---	---	33.2	36.1	27.2	25.1	25.0	23.7	24.2	19.4	---	1979
1980	17.6	18.7	19.7	24.3	28.1	13.9	11.8	18.5	---	---	28.8	28.4	---	1980
1981	27.3	31.0	27.4	25.5	29.4	19.4	14.8	12.8	12.8	15.8	17.1	18.8	20.9	1981
1982	17.7	14.3	16.9	19.6	35.8	40.3	34.7	33.3	24.8	18.7	21.9	21.4	24.8	1982
MEAN	24.2	24.7	23.1	28.1	32.7	26.8	23.8	24.2	28.0	23.1	25.2	22.7	25.9	MEAN

LOCATION - LAT 56 13 43 N DRAINAGE AREA, 3 840 km²
LONG 101 00 12 W REGULATED SINCE 1951

LAURIE RIVER BELOW LAURIE RIVER HYDRO PLANT - STATION NO. 06EB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1978	42.5 AT 08:10 CST ON MAY 15	41.6 ON MAY 15	1.42E ON JUN 1 *	1 010 000	1978
1979	---	---	---	---	1979
1980	---	---	---	---	1980
1981	37.3 AT 08:00 CST ON MAY 24	37.2 ON MAY 24	11.0 ON JUN 28	---	1981
1982	74.9 AT 16:40 CST ON AUG 20 *	71.1 ON AUG 21 *	10.4 ON AUG 5	880 000	1982
			10.1 ON FEB 22	783 000	MEAN

E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD 818 000

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	25.9	15.7	19.2	19.3	8.79	5.63	---	1953
1954	3.86	2.56	1.89	1.04	9.08	16.2	11.9	9.24	20.4	13.9	---	---	---	1954
1955	---	---	---	---	---	39.4	23.6	14.5	22.3	23.1	---	---	---	1955
1956	---	---	---	---	---	60.0	20.2	11.1	8.89	7.08	---	---	---	1956
1957	---	---	---	---	---	66.1	31.3	13.8	5.99	8.23	---	---	---	1957
1970	---	---	---	---	---	---	---	---	---	---	15.7	---	---	1970
1971	8.75	3.77	3.48	32.0	79.8	89.2	108	59.3	26.8	21.3	16.5	12.0	39.5	1971
1972	7.80	4.74	2.83	5.03	88.7	38.2	25.6	12.2	40.6	27.0	12.0	6.26	22.6	1972
1973	5.42	6.27	8.23	1.56	62.1	18.4	8.85	1.72	2.09	10.4	5.54	3.85	11.1	1973
1974	2.25	1.34	1.38	10.1	---	27.2	10.8	25.1	30.6	18.9	11.4	6.80	---	1974
1975	---	---	---	---	---	---	---	---	---	31.7	9.54	5.85	---	1975
1976	4.41	3.52	2.72	13.4	106	34.2	30.0	19.1	18.3	40.3	13.4	6.70	24.5	1976
1977	4.85	3.89	2.55	69.8	56.7	26.5	17.8	8.01	19.3	15.0	9.17	4.85	19.7	1977
1978	2.21	1.34	0.850	0.847	76.3	26.4	48.4	81.0	63.7	48.4	15.9	8.91	29.9	1978
1979	2.90	1.44	0.814	1.07	36.0	62.1	56.4	26.2	23.4	30.9	10.0	5.55	21.5	1979
1980	3.32	2.25	1.63	33.9	---	---	---	---	---	---	8.28	5.88	---	1980
1981	3.84	3.05	2.86	2.85	83.9	37.9	24.0	22.3	10.9	29.0	9.88	3.55	19.7	1981
1982	2.52	2.08	1.74	1.88	124	67.8	24.8	10.0	15.2	19.5	7.49	5.10	23.7	1982
1983	4.04	3.36	2.83	2.47	58.7	154	23.5	38.8	69.1	33.5	19.3	9.08	34.7	1983
1984	4.75	2.12	0.595	86.8	98.8	42.6	14.3	6.86	8.47	9.82	5.22	3.23	21.9	1984
1985	1.91	1.28	1.03	32.3	91.6	56.2	25.4	7.22	3.89	6.84	7.49	4.58	20.1	1985
1986	2.54	1.52	1.85	1.72	107	41.7	57.0	53.7	26.8	14.7	4.79	3.18	26.8	1986
1987	2.88	2.57	1.99	44.2	41.5	21.5	10.6	5.89	25.8	15.5	10.1	4.62	15.8	1987
1988	2.39	1.18	0.873	1.32	144	48.5	34.2	18.4	15.2	13.0	10.4	4.89	24.7	1988
MEAN	3.91	2.67	2.09	17.9	78.0	48.7	30.1	21.3	22.7	20.7	10.3	6.21	23.7	MEAN

LOCATION - LAT 56 31 10 N DRAINAGE AREA, 3 290 km²
LONG 94 12 20 W NATURAL FLOW

LIMESTONE RIVER NEAR BIRD - STATION NO. 05UG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	---	---	1963
1964	---	---	---	---	1964
1965	---	29.2 ON SEP 12	---	---	1965
1966	---	---	---	---	1966
1967	---	---	---	---	1967
1970	---	269 B ON MAY 24	---	---	1970
1971	---	---	---	---	1971
1972	185 AT 15:51 CST ON JUL 9	---	---	---	1972
1973	---	180 ON JUN 1	---	---	1973
1974	---	149 B ON MAY 11	1.93 B ON APR 11	1 280 000	1974
	---	120 B ON MAY 14	1.92 B ON APR 24	717 000	1975
1975	---	---	0.0888 ON APR 17 *	350 000	1976
1976	---	---	1.20 B ON FEB 24	---	1977
1977	---	---	---	---	1978
1978	---	182 ON MAY 11	---	---	1979
1979	---	163 ON APR 23	2.12 B ON APR 8	---	1980
	124 AT 13:26 CST ON JUL 17	161 E ON MAY 15	2.04 B ON MAR 31	774 000	1981
1980	---	121 ON JUL 17	0.8788 ON MAR 21	822 000	1982
1981	---	---	0.8518 ON MAR 20	842 000	1983
1982	2090 AT 08:15 CST ON MAY 21	---	---	879 000	1984
1983	---	208 B ON MAY 21	---	---	1985
1984	---	386 B ON MAY 3	2.77 B ON DEC 31	---	1986
	382 AT 05:50 CST ON APR 23 *	438 ON MAY 31 *	1.84 B ON APR 9	821 000	1987
1985	---	303 ON APR 30	2.27 B ON MAY 17	748 000	1988
1986	---	---	0.2288 ON APR 1	1 080 000	MEAN
1987	---	263 B ON APR 30	---	894 000	
1988	142 AT 00:30 CST ON APR 28	273 E ON MAY 15	0.9388 ON APR 6	---	
	---	134 ON APR 28	1.35 B ON FEB 19	632 000	
		317 B ON MAY 9	1.80 B ON APR 2	840 000	
			0.8508 ON MAR 6	492 000	
				781 000	
				748 000	

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	6.36	3.88	2.48	---	---	---	78.7	51.7	119	44.2	22.8	13.4	---	1972
1973	7.26	4.72	4.05	5.00	101	---	---	---	---	17.3	11.1	5.51	---	1973
1974	3.27	2.08	1.28	2.90	43.7	30.9	20.2	37.2	22.8	14.9	7.78R	6.32 R	16.2R	1974
1975	5.09 R	3.08 R	2.02 R	5.24 R	82.3	66.8	35.9	29.8	24.3	34.4	20.2	12.2	27.5R	1975
1976	7.24	4.48	3.42 R	3.63 R	80.0R	51.3	24.7	12.0	23.1	49.1	17.7	9.41	22.3R	1976
1977	5.34	3.82	3.24	27.8	112	44.0	34.4	20.8	46.0	22.6	13.8	7.67	26.6	1977
1978	3.83	2.52	2.03	1.81	48.6	63.8	45.2	107	88.7	59.4	25.4	11.0	36.5	1978
1979	5.29	3.13	1.95	1.45	47.8R	89.4	35.5	28.5	38.3	39.8	14.0	7.55	26.0R	1979
1980	3.90	2.39	1.86	25.8	70.9	83.5	47.8	93.3	100	37.6	9.71	8.79	40.3	1980
1981	5.23	4.23	3.58	3.08	89.3	66.0	24.2	11.7	10.9	25.2	10.8	4.22	21.7	1981
1982	1.78	0.590	0.434	1.28	90.8	107	47.3	22.4	35.7	25.3	11.4	7.39	29.5	1982
1983	5.55	4.44	2.79	3.28	16.5	205	37.6	48.5	168	68.4	29.7	14.6	50.3	1983
1984	9.57	6.08	3.53	52.4	136	84.8	18.2	7.58	10.2	10.8	7.08	3.66	29.2	1984
1985	1.74	1.55	1.45	2.39	138	56.8	23.4	7.59	5.43	6.34	2.10	0.826	20.9	1985
1986	0.568	0.394	0.223	0.088	151	139	130	46.8	26.5	13.5	6.26	2.96	43.6	1986
1987	1.71	1.48	1.63	18.3	82.8	73.8	43.9	14.6	62.8	28.3	13.7	7.27	29.1	1987
1988	2.87	1.12	1.00	1.02	98.9	92.0	22.3	48.2	23.3	11.5	9.18	5.87	26.3	1988
MEAN	4.51 R	2.93 R	2.22 R	9.76 R	85.6R	83.6	41.9	36.5	50.6	30.0	13.7 R	7.45 R	30.0R	MEAN

LOCATION - LAT 57 39 10 N
LONG 95 39 50 W

DRAINAGE AREA, 4 250 km^2
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

LITTLE BEAVER RIVER NEAR THE MOUTH - STATION NO. 06FB002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	203 AT 21:55 CST ON SEP 2	200 ON SEP 3	---	---	1972
1973	217 AT 01:30 CST ON MAY 15	189 ON MAY 15	3.34 B ON APR 7	---	1973
1974	88.6 AT 17:30 CST ON MAY 14	83.7 ON MAY 13	0.7658 ON APR 12	511 000R	1974
1975	---	119 B ON MAY 8	0.6808 ON APR 1	867 000R	1975
1976	---	132 A ON MAY 18	3.23 B ON APR 1	704 000R	1976
1977	---	154 B ON MAY 3	3.11 B ON MAR 25	901 000	1977
1978	187 AT 18:57 CST ON AUG 15	185 ON AUG 15	1.87 B ON APR 6	1 210 000	1978
1979	---	133 B ON MAY 28	1.35 B ON APR 17	820 000R	1979
1980	240 AT 21:00 CST ON AUG 24	239 ON AUG 24	1.41 B ON APR 7	1 280 000	1980
1981	248 AT 13:00 CST ON MAY 21	242 ON MAY 21	3.83 B ON APR 30	885 000	1981
1982	155 AT 15:00 CST ON JUN 1	153 ON JUN 1	0.3848 ON APR 8	929 000	1982
1983	408 AT 21:29 CST ON JUN 1 *	395 ON JUN 2	2.85 B ON MAY 20	1 580 000	1983
1984	278 AT 19:55 CST ON MAY 18	265 ON MAY 19	1.87 B ON APR 8	924 000	1984
1985	215	209 ON MAY 9	0.8248 ON DEC 31	658 000	1985
1986	--- ON MAY 9	410 E ON MAY 30 *	0.0888 ON APR 13 *	1 370 000	1986
1987	135 AT 09:40 CST ON JUN 25	134 ON JUN 28	1.47 B ON FEB 6	919 000	1987
1988	198 AT 20:06 CST ON MAY 22	193 ON MAY 32	1.00 B ON FEB 27	833 000	1988
				848 000R	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 08FC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	---	---	---	---	---	---	---	23.7	16.9	15.5	13.1	8.80	---	1987
1988	5.41	4.31	5.08	6.88	89.3	106	83.4	29.3	26.4	40.3	25.8	18.2	35.0	1988
1989	11.4	9.58	8.12	8.43	10.4	101	89.4	42.8	97.7	77.9	61.4	28.7 R	42.1R	1989
1990	20.8 R	17.1	12.9	10.7	49.0	109	58.6	40.2	41.5	55.8	85.9	38.5	45.1R	1990
1991	26.4	23.2	15.6	22.3	108	108	177	103	84.4	58.3	46.4	28.5	65.6	1991
1992	23.4	18.0	15.0	13.2	89.1	63.0	53.2	35.6	84.0	61.2	31.3	21.9	40.1	1992
1993	16.0	12.7	12.6	12.8	88.3	38.9	25.3	15.6	14.3	17.6	13.0	10.0	21.9	1993
1994	8.20	7.35	7.10	11.2	29.4	33.7	28.1	35.6	27.8	23.9	17.5	14.5	20.5	1994
1995	12.4	10.5	9.06	9.65	---	---	47.4	49.4	55.5	58.2	40.4	27.3	---	1995
1996	18.5	15.3	13.7	17.2	100	88.0	79.3	80.4	45.5	56.3	27.4	18.5	43.7	1996
1997	14.7	12.6	11.5	48.0	89.4	65.6	80.7	38.0	41.5	38.3	29.1	19.5	39.0	1997
1998	13.2	10.9	9.26	8.46	59.2	58.2	56.0	102	97.5	104	58.1	31.6	51.0	1998
1999	18.8 R	13.9	10.8	9.00	73.3	115	74.8	44.6	44.7	58.7	34.7	21.7	43.3R	1999
2000	14.1	11.9	11.0	21.7	40.5	55.5	82.3	132	140	93.6	46.0	28.1	56.5	2000
2001	20.7	16.8	13.9	12.6	72.9	61.3	37.6	30.7	19.7	31.2	22.4	11.7	29.4	2001
2002	9.04	7.40	6.24	5.86	87.3	101	54.9	47.5	59.5	57.6	34.7	21.2	42.1	2002
2003	15.0	13.5	12.3	11.6	12.0	---	60.4	52.3	67.2	75.6	44.9	27.4	---	2003
2004	21.0	16.5	12.8	---	---	---	39.6	27.3	23.8	24.3	14.7	9.85	---	2004
2005	8.55	8.26	8.12	15.6	129	91.6	78.2	44.4	30.1	27.8	16.3	8.10	39.0	2005
2006	8.20	5.90	5.85	5.42	126	118	157	123	93.5	85.2	31.1	17.6	63.3	2006
2008	16.1	16.5	12.3	9.89	113	101	78.0	59.5	41.3	26.3	26.5	19.4	43.6	2008
MEAN	15.3 R	12.7	10.7	13.7	75.3	82.1	89.2	54.1	53.9	50.1	33.2	20.3 R	42.4R	MEAN

LOCATION - LAT 58 54 00 N
LONG 95 48 00 W
DRAINAGE AREA, 5 810 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

LITTLE CHURCHILL RIVER ABOVE RECLUSE LAKE - STATION NO. 08FC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	---	---	---	1987
1988	---	188 B ON MAY 18	4.058 ON FEB 14 *	1 110 000	1988
1989	---	193 ON JUN 25	7.228 ON APR 12	1 330 000R	1989
1990	---	173 ON JUN 2	9.838 ON APR 19	1 420 000R	1990
1991	255 AT 20:08 CST ON JUL 10 *	253 ON JUL 11	11.3 B ON APR 10	2 070 000	1991
1992	---	122 ON MAY 14	11.9 B ON APR 24	1 270 000	1992
1993	123 AT 12:30 CST ON MAY 14	114 ON MAY 14	8.218 ON DEC 31	878 000	1993
1994	47.6 AT 19:00 CST ON AUG 1	47.0 ON AUG 1	6.808 ON APR 17	845 000	1994
1995	---	---	---	---	1995
1996	143 B AT 21:20 CST ON APR 12	140 ON MAY 12	13.4 B ON MAR 29	1 380 000	1996
1997	---	143 B ON APR 26	11.2 B ON APR 4	1 230 000	1997
1998	157 AT 15:02 CST ON AUG 20	155 ON AUG 20	8.308 ON APR 11	1 810 000	1998
1999	---	170 B ON MAY 25	8.508 ON APR 19	1 370 000R	1999
2000	---	244 ON AUG 26	10.5 B ON APR 5	1 780 000	2000
2001	---	131 B ON MAY 22	9.928 ON DEC 31	827 000	2001
2002	145 AT 18:00 CST ON JUN 9	142 ON JUN 10	5.128 ON APR 20	1 330 000	2002
2003	---	---	11.1 B ON MAY 10	---	2003
2004	---	---	9.128 ON DEC 31	---	2004
2005	200 AT 18:29 CST ON MAY 4	196 ON MAY 4	6.678 ON DEC 31	1 230 000	2005
2006	---	291 B ON MAY 16 *	5.368 ON APR 12	2 000 000	2006
2008	171 AT 15:53 CST ON MAY 12	171 ON MAY 12	8.18 ON APR 19	1 380 000	2008
				1 340 000R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.450	0.930	1.63	0.830	1.09	1.52	0.843	0.142	---	1915
1916	0.057	0.057	0.113	3.40	4.25	7.78	12.7	3.83	2.26	2.41	1.13	0.586	3.23	1916
1917	0.419	0.338	0.473	3.08	7.59	3.18	3.82	1.20	0.693	0.580	0.526	---	---	1917
1918	---	---	---	0.430	1.28	1.48	0.814	0.608	0.567	---	---	---	---	1918
1919	---	---	---	---	2.88	1.18	2.14	0.589	0.474	0.718	0.378	0.033	---	1919
1920	---	---	---	---	10.7	3.48	0.711	0.208	0.338	0.404	---	---	---	1920
1921	---	---	---	---	4.72	2.83	0.882	0.818	1.00	1.01	0.817	---	---	1921
1922	---	---	---	1.33	4.47	3.22	3.15	2.00	1.82	0.938	---	---	---	1922
MEAN	0.238	0.198	0.293	2.08	4.84	3.02	3.20	1.23	1.01	1.08	0.738	0.267	3.23	MEAN

LOCATION - LAT 50 31 55 N
LONG 100 17 40 W
DRAINAGE AREA, 1 170 km²
NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT ELPHINSTONE - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	22.9 ON JUL 3 *	0.0578 ON JAN 1 *	102 000	1917
1918	---	10.2 ON MAY 8	---	---	1918
1919	---	2.38 ON APR 28	---	---	1919
1920	---	---	---	---	1920
1921	---	15.8 ON MAY 15	---	---	1921
1922	---	---	---	---	1922
		5.86 ON MAY 27	---	---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER AT MIDDLETON BRIDGE - STATION NO. 05MF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.391	0.742	0.831	0.450	0.462	0.248	---	---	1915
1916	---	---	---	1.99	1.19	4.06	8.91	3.63	1.03	1.10	0.700	---	---	1916
MEAN	---	---	---	1.99	1.19	2.24	4.83	2.13	0.735	0.781	0.474	---	---	MEAN

LOCATION - LAT 50 41 40 N LONG 100 14 45 W DRAINAGE AREA, 568 km^2 NATURAL FLOW

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	1.42	1.70	1.70	28.3	14.8	9.21	10.5	6.43	1.54	1.63	1.42	0.566	6.70	1913
1914	0.566	0.566	0.566	26.5	---	---	---	---	---	---	---	---	---	1914
MEAN	0.993	1.13	1.13	27.9	14.8	9.21	10.5	6.43	1.54	1.63	1.42	0.566	6.70	MEAN

LOCATION - LAT 50 11 25 N LONG 99 58 00 W DRAINAGE AREA, 3 170 km^2 REGULATED

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER AT RIVERDALE - STATION NO. 05MF003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	97.8 ON APR 12 *	0.283 ON SEP 12 *	211 000	1914
		---	---	---	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	24.1	14.7	5.46	1.42	1.13	1.05	0.939	0.802	0.380	---	1914
1915	0.001	0.001	0.057	2.68	1.58	2.21	1.97	0.531	0.770	2.33	1.14	0.227	1.13	1915
1916	0.425	0.340	0.227	9.91	8.59	11.5	14.8	3.89	1.94	2.15	1.70	0.880	4.72	1916
1917	0.412	0.474	0.638	5.71	12.6	4.34	3.50	1.34	0.811	0.595	0.942	0.242	2.87	1917
1918	0.073	0.101	1.80	6.26	2.70	3.14	1.04	0.807	1.28	0.880	0.595	0.298	1.58	1918
1919	0.296	0.280	0.325	8.78	8.42	2.34	3.18	1.87	1.90	2.05	0.782	0.290	2.35	1919
1920	0.038	0.050	0.202	5.76	15.4	6.85	2.11	0.575	1.55	1.55	1.01	0.785	3.09	1920
1921	0.352	0.213	0.378	5.89	12.0	6.85	2.00	1.25	3.29	2.84	1.80	1.05	3.17	1921
1922	0.387	0.124	0.311	6.79	11.7	5.57	5.12	4.49	2.14	1.51	1.93	1.38	3.58	1922
1923	0.879	0.384	0.408	13.1	43.0	20.9	15.0	5.80	4.40	2.84	1.61	1.05	9.28	1923
1924	0.358	0.182	0.449	3.92	22.6	9.89	6.44	3.82	1.70	3.67	2.80	1.30	4.89	1924
1925	0.871	0.759	0.991	23.1	12.8	16.2	15.4	4.25	2.12	3.54	2.54	1.07	6.97	1925
1926	0.718	0.480	1.27	7.77	5.78	4.08	1.93	0.880	5.32	8.41	4.11	1.98	3.40	1926
1927	1.40	0.589	0.884	23.0	49.3	27.6	17.5	10.4	6.57	4.08	---	---	---	1927
1928	---	---	---	11.3	10.1	18.0	13.0	5.87	2.85	1.92	1.05	0.880	---	1928
1929	0.595	0.425	0.850	2.88	5.21	4.55	1.19	0.378	0.327	0.489	---	---	---	1929
1930	---	---	---	---	5.24	3.08	0.987	0.180	0.072	---	---	---	---	1930
1959	---	---	0	2.46	7.04	3.15	1.30	0.408	0.475	2.95	---	---	---	1959
1960	---	---	0.057	12.0	19.1	12.3	2.17	0.520	0.380	0.332	---	---	---	1960
1961	---	---	0.371	2.18	2.63	0.588	0.188	0.068	0.052	0.102	---	---	---	1961
1962	---	---	0	1.80	0.803	1.88	0.488	0.583	0.895	0.320	---	---	---	1962
1963	---	---	1.28	11.5	5.85	5.67	3.67	1.17	1.01	1.08	---	---	---	1963
1964	---	---	0.182	5.98	11.1	1.40	1.14	0.500	0.219	0.369	---	---	---	1964
1965	---	---	0.008	4.01	15.5	8.13	2.71	1.39	8.67	4.53	---	---	---	1965
1966	---	---	0.590	9.18	15.8	6.71	2.20	3.48	1.14	0.885	---	---	---	1966
1967	---	---	0.496	12.1	20.1	6.56	1.94	0.728	0.162	0.348	---	---	---	1967
1968	---	---	1.85	6.41	3.89	2.40	2.16	5.79	3.90	1.35	---	---	---	1968
1969	---	---	0.474	16.5	8.38	4.06	16.2	3.83	2.23	1.72	---	---	---	1969
1970	---	---	0.871	5.07	45.0	18.5	7.10	4.31	1.88	2.40	---	---	---	1970
1971	---	---	0.813	13.2	9.11	20.5	10.2	5.54	2.13	5.19	---	---	---	1971
1972	1.46	1.52	1.28	13.7	22.1	5.20	1.60	1.56	1.08	0.630	0.644	0.255	4.26	1972
1973	0.128	0.101	0.885	2.21	1.80	3.17	1.18	1.14	2.55	4.44	1.88	1.36	1.73	1973
1974	0.595	0.848	1.40	14.4	33.5	15.0	2.29	0.887	0.589	0.816	0.578	0.530	5.84	1974
1975	0.383	0.338	0.385	5.12	17.0	8.72	4.09	4.08	26.3	19.3	7.58	3.70	8.11	1975
1976	2.80	2.43	2.25	32.4	18.5	12.7	7.78	1.49	0.520	0.413	0.402	0.243	5.85	1976
1977	0.343	0.670	1.21	4.48	3.48	1.28	3.71	1.53	2.44	3.89	1.55	1.23	2.14	1977
1978	0.830	0.779	0.828	7.91	8.48	2.80	1.30	0.441	0.807	1.14	1.18	0.856	2.37	1978
1979	0.449	0.317	0.473	13.8	33.5	17.4	3.38	0.796	0.412	0.314	0.459	0.432	6.01	1979
1980	0.304	0.223	0.348	5.09	2.05	0.367	0.832	2.45	3.24	1.90	1.87	1.48	1.85	1980
1981	0.645	0.263	1.08	5.13	4.18	3.75	1.87	0.429	0.221	0.872	2.00	0.648	1.73	1981
1982	0.241	0.484	0.322	11.0	7.84	2.31	1.38	1.04	0.205	1.84	1.34	0.212	2.33	1982
1983	0.320	0.240	0.715	11.8	15.4	6.41	3.84	1.19	0.094	0.292	0.252	0.147	3.40	1983
1984	0.105	0.121	0.619	3.58	5.14	3.48	1.67	0.156	0.075	1.03	1.19	0.870	1.49	1984
1985	0.383	0.310	0.310	8.26	5.26	2.49	1.43	3.53	3.31	4.67	2.17	0.771	2.83	1985
1986	0.675	0.638	1.67	19.1	28.8	6.12	2.97	2.54	1.02	2.73	1.67	1.34	5.76	1986
1987	1.26	1.12	1.79	22.0	7.49	2.32	1.23	0.808	0.214	0.884	0.712	0.522	3.32	1987
1988	0.199	0.140	0.486	6.74	11.8	1.87	0.549	0.200	0.179	0.250	0.347	0.198	1.91	1988
MEAN	0.581	0.491	0.713	8.83	13.4	7.28	4.28	2.14	2.22	2.26	1.56	0.837	3.74	MEAN

LOCATION - LAT 50 21 28 N DRAINAGE AREA, 2 830 km²
LONG 99 54 00 W NATURAL FLOW

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR MINNEDOSA - STATION NO. 05MF001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	7.08 ON APR 12	0 B ON JAN 1 *	35 600	1915
1916	---	25.2 ON JUL 1	0.227B ON MAR 1	149 000	1916
1917	---	21.1 ON MAY 2	0.085B ON DEC 26	64 100	1917
1918	---	8.47 ON APR 4	0.057B ON JAN 6	49 300	1918
1919	---	11.8 ON APR 11	0.113B ON DEC 31	74 300	1919
1920	---	20.4 ON MAY 16	0 B ON JAN 21	97 800	1920
1921	---	16.0 ON MAY 29	0.170B ON JAN 24	100 000	1921
1922	---	14.0 ON MAY 20	0.085B ON FEB 12	112 000	1922
1923	---	83.5 ON MAY 5	0.255B ON FEB 17	292 000	1923
1924	---	36.2 ON MAY 2	0.113B ON MAR 6	158 000	1924
1925	---	27.9 ON APR 12	0.595B ON MAR 4	220 000	1925
1926	---	10.4 E ON APR 19	0.450B ON FEB 10	107 000	1926
1927	---	82.4 ON MAY 6	---	---	1927
1928	---	36.2 ON JUN 24	---	---	1928
1929	---	7.56 ON APR 29	---	---	1929
1930	---	---	---	---	1930
1958	---	9.56 ON MAY 11	0 B ON MAR 1	---	1958
1960	---	26.1 ON APR 28	0.057B ON MAR 1	---	1960
1961	---	3.88 ON APR 26	0.025 ON AUG 19	---	1961
1962	---	5.52B ON APR 21	0 B ON MAR 1	---	1962
1963	---	14.9 B ON APR 3	0 B ON MAR 1	---	1963
1964	---	17.8 ON MAY 9	0.081 ON SEP 14	---	1964
1965	---	30.0 ON MAY 6	0.085B ON MAR 1	---	1965
1966	---	19.2 ON MAY 12	0.331 ON SEP 30	---	1966
1967	---	27.2 B ON APR 16	0.127 ON SEP 9	---	1967
1968	---	8.67 ON APR 25	0.340 ON JUN 29	---	1968
1969	---	36.0 ON APR 15	0.850B ON APR 7	---	1969
1970	91.2 AT 02:15 CST ON MAY 12 *	90.3 ON MAY 12 *	0.371 ON SEP 11	---	1970
1971	33.4 AT 02:52 CST ON JUN 20	32.8 ON JUN 20	0.779B ON MAR 25	---	1971
1972	33.7 AT 05:48 CST ON MAY 3	33.4 ON MAY 3	0.176B ON DEC 31	135 000	1972
1973	---	5.60A ON JUN 26	0.045 ON JUL 23	54 400	1973
1974	43.0 AT 10:47 CST ON MAY 3	43.0 ON MAY 3	0.402 ON SEP 15	187 000	1974
1975	62.3 AT 08:40 CST ON SEP 27	59.7 ON SEP 27	0.323B ON FEB 11	256 000	1975
1976	58.7 AT 17:58 CST ON APR 19	59.2 ON APR 19	0.130B ON DEC 9	210 000	1976
1977	13.8 B AT 17:30 CST ON APR 16	11.8 B ON APR 16	0.215B ON JAN 14	67 800	1977
1978	17.0 AT 08:34 CST ON MAY 4	16.9 ON MAY 3	0.176 ON AUG 31	74 800	1978
1979	50.6 AT 04:20 CST ON MAY 24	49.5 ON MAY 24	0.137 ON OCT 7	189 000	1979
1980	10.0 B AT 09:24 CST ON APR 12	7.41B ON APR 12	0.183 ON JUN 25	52 500	1980
1981	9.92 AT 19:59 CST ON APR 8	8.28 ON APR 9	0.081 ON SEP 20	54 800	1981
1982	22.6 B AT 17:19 CST ON APR 22	21.5 B ON APR 22	0.005B ON MAR 21	73 800	1982
1983	41.1 AT 22:34 CST ON APR 25	40.4 ON APR 27	0.024 ON SEP 25	107 000	1983
1984	7.84 AT 21:51 CST ON JUN 28	7.86 ON JUN 29	0.036B ON JAN 14	47 000	1984
1985	16.7 AT 01:24 CST ON APR 22	16.3 ON APR 22	0.149B ON MAR 30	89 200	1985
1986	53.5 AT 17:33 CST ON MAY 12	52.0 ON MAY 13	0.321 ON SEP 13	182 000	1986
1987	32.9 AT 15:22 CST ON APR 12	31.5 ON APR 12	0.08B ON SEP 15	105 000	1987
1988	25.6 B AT 16:32 CST ON APR 10	23.8 ON MAY 13	0.07A ON AUG 15	80 500	1988
				116 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.256	2.05	3.13	0.716	0.187	0	0.017	0.048	---	---	0.797	1961
1962	---	---	0.004	6.30	1.67	2.10	0.679	0.637	0.702	0.518	---	---	1.86	1962
1963	---	---	1.30	14.5	7.11	7.62	3.64	1.20	1.44	2.02	---	---	4.82	1963
1964	---	---	0.113	5.86	11.4	1.77	1.11	0.651	0.475	0.472	---	---	3.74	1964
1965	---	---	0.227	9.75	22.6	14.8	6.84	1.92	8.49	5.26	---	---	8.88	1965
1966	---	---	2.14	13.0	17.5	7.84	2.65	3.94	1.55	0.823	---	---	5.15	1966
1967	---	---	0.263	19.4	22.1	8.24	2.52	0.881	0.218	0.397	---	---	5.73	1967
1968	---	---	3.06	7.46	5.17	3.56	2.01	7.04	5.61	1.73	---	---	4.44	1968
1969	---	---	0.404	32.6	12.3	4.85	20.6	4.80	2.36	2.45	---	---	10.0	1969
1970	---	---	0.906	17.3	56.2	19.6	8.67	4.13	1.83	2.59	---	---	13.8	1970
1971	---	---	0.783	13.2	10.5	26.6	15.0	6.71	2.47	4.81	---	---	9.88	1971
1972	---	---	1.83	21.3	28.7	5.24	1.93	0.716	0.313	1.25	---	---	7.62	1972
1973	---	---	1.27	2.27	2.04	2.67	1.55	1.13	2.21	4.26	---	---	2.16	1973
1974	---	---	0.839	23.6	36.8	20.8	2.88	0.782	0.569	0.484	---	---	11.0	1974
1975	---	---	0.334	8.98	22.4	12.0	5.44	5.38	27.5	26.3	---	---	13.5	1975
1976	---	---	2.16	43.8	21.6	12.3	6.88	1.56	0.389	0.285	---	---	11.3	1976
1977	---	---	1.81	4.20	3.60	1.88	3.84	1.81	2.19	4.53	---	---	2.88	1977
1978	---	---	1.02	10.2	9.83	2.77	1.63	0.988	0.852	1.34	---	---	3.55	1978
MEAN	---	---	1.02	14.2	16.5	6.85	4.98	2.45	3.29	3.31	---	---	6.77	MEAN

LOCATION - LAT 50 08 30 N
LONG 100 07 00 W
DRAINAGE AREA, 3 480 km^2
REGULATED SINCE 1961

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RAPID CITY - STATION NO. 05MF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	5.61 ON MAY 31	0 ON AUG 3 *	18 800	1961
1962	---	34.3 ON APR 21	0 B ON MAR 1	33 000	1962
1963	---	23.6 ON APR 15	0 B ON MAR 1	102 000	1963
1964	---	19.3 ON MAY 5	0.1128 ON MAR 1	58 000	1964
1965	---	46.2 ON JUL 21	0.2278 ON MAR 1	184 000	1965
1966	---	21.1 ON MAY 14	0.2838 ON MAR 1	130 000	1966
1967	---	48.7 B ON APR 18	0.079E ON OCT 4	143 000	1967
1968	---	18.4 B ON MAR 27	0.388 ON JUL 3	94 000	1968
1969	---	92.0 ON APR 15	0.3969 ON MAR 1	212 000	1969
1970	---	95.7 ON MAY 14 *	0.9068 ON MAR 1	295 000	1970
1971	---	80.3 ON JUN 14	0.6519 ON MAR 1	211 000	1971
1972	---	41.1 E ON APR 20	0.178 ON SEP 12	161 000	1972
1973	---	5.75 ON OCT 12	0.0878 ON MAR 1	45 700	1973
1974	---	85.2 ON APR 21	0.368 ON OCT 3	234 000	1974
1975	---	88.8 ON SEP 29	0.3348 ON MAR 1	286 000	1975
1976	---	72.8 ON APR 21	0.224E ON OCT 6	238 000	1976
1977	---	10.7 ON APR 18	0.216 ON JUL 7	63 200	1977
1978	---	18.2 B ON APR 18	0.374E ON AUG 27	75 100	1978
				143 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1944	---	---	---	---	---	---	---	5.73	2.32	3.44	---	---	---	1944
1945	---	---	---	12.1	12.5	7.85	5.99	2.20	1.13	1.03	---	---	---	1945
1946	---	---	---	18.6	10.2	3.30	3.71	1.24	1.02	4.71	---	---	---	1946
1947	---	---	---	14.8	28.0	18.6	36.5	8.23	2.87	2.45	3.07	---	---	1947
1948	---	---	0.796	13.2	35.3	8.15	7.68	5.80	1.73	1.11	1.03	---	---	1948
1949	---	---	---	---	5.24	7.14	4.74	5.50	1.44	0.868	1.63	---	---	1949
1950	---	---	---	10.3	30.3	23.6	20.3	12.4	4.73	4.73	---	---	---	1950
1951	---	---	0.588	14.1	17.2	6.57	2.91	0.628	1.14	2.86	---	---	---	1951
1952	---	---	0.087	9.17	3.81	2.14	1.35	0.722	9.29	2.87	---	---	---	1952
1953	---	---	0.026	12.3	19.6	25.6	17.7	8.57	4.25	3.49	---	---	---	1953
1954	---	---	---	9.15	13.3	20.3	15.5	4.34	5.35	10.8	5.51	---	---	1954
1955	---	---	---	24.3	23.2	19.6	13.0	3.94	1.88	1.85	1.35	0.847	---	1955
1956	0.389	0.260	0.918	15.4	31.5	43.7	43.2	13.4	5.95	4.06	8.10	3.13	14.0	1956
1957	2.32	1.74	7.06	18.0	31.6	11.4	7.68	2.98	1.98	1.84	2.04	1.35	7.53	1957
1958	0.461	0.147	3.45	8.50	3.29	1.41	1.80	0.229	0.017	0.278	0.719	0.172	1.79	1958
1959	0.009	0	0.697	5.34	8.40	2.95	0.796	0.408	0.340	1.40	1.83	0.885	1.76	1959
1960	1.22	0.760	0.094	11.9	18.7	19.7	8.86	0.589	0.609	0.807	0.646	0.575	5.27	1960
1961	0.557	0.883	0.544	0.264	0.138	0.589	0.612	0.550	0.379	0.083	0.032	0.324	0.388	1961
1962	0.519	0.880	1.01	0.191	0.382	1.85	1.34	0.714	0.117	0.988	0.983	0.789	0.812	1962
1963	1.33	1.43	0.887	6.87	9.23	12.0	5.19	1.58	0.864	1.32	0.787	1.73	3.81	1963
1964	1.87	1.82	1.85	2.01	10.0	2.53	1.53	0.590	0.132	0.178	0.450	1.88	2.03	1964
1965	2.01	2.02	1.96	7.13	15.9	12.3	5.93	2.78	7.88	5.87	3.26	4.35	5.87	1965
1966	4.04	3.80	2.66	3.23	17.2	8.66	2.37	3.26	1.31	0.611	0.751	0.667	4.04	1966
1967	1.90	2.22	2.05	18.1	20.3	8.86	2.46	0.782	0.258	0.116	1.07	2.18	4.87	1967
1968	2.17	2.10	1.40	4.14	4.29	3.18	2.27	8.15	5.04	1.79	2.14	2.27	3.08	1968
1969	2.41	2.04	1.53	28.6	11.4	3.83	17.4	4.44	1.70	1.85	2.10	2.63	6.49	1969
1970	2.82	2.48	2.52	6.81	51.5	19.2	8.09	3.83	1.77	2.84	4.34	2.55	9.24	1970
1971	2.55	2.37	2.18	7.57	11.8	20.4	13.3	8.18	2.50	5.44	5.37	4.22	7.00	1971
1972	2.15	1.72	1.83	19.1	25.9	6.46	1.79	0.948	0.658	0.580	0.580	0.659	5.20	1972
1973	0.807	0.713	0.884	0.796	1.93	2.49	1.49	0.953	2.38	5.52	2.51	1.82	1.82	1973
1974	1.10	1.06	1.01	21.5	36.8	19.4	2.77	1.15	1.09	1.07	0.883	0.822	7.39	1974
1975	0.817	0.775	0.751	5.47	21.8	10.5	5.46	4.78	23.6	23.2	8.80	4.01	8.31	1975
1976	3.41	2.81	2.38	47.6	22.1	12.0	10.2	1.83	0.879	0.832	0.722	0.749	8.79	1976
1977	0.725	0.682	0.423	1.42	3.61	1.81	3.45	2.17	2.01	4.86	1.58	1.54	2.05	1977
1978	1.47	1.46	1.48	7.16	11.1	3.46	1.72	1.02	0.838	0.784	0.627	0.842	2.69	1978
1979	0.783	0.778	0.791	21.4	39.4	21.2	4.13	1.04	0.825	0.828	0.816	0.820	7.76	1979
1980	0.806	0.788	0.801	1.45	3.07	0.973	1.12	1.48	4.72	2.46	1.24	1.63	1.71	1980
1981	1.57	1.51	1.23	3.71	3.77	3.80	2.29	1.11	1.09	1.04	1.24	1.75	2.01	1981
1982	1.48	1.52	1.40	8.92	8.71	3.34	1.55	1.48	1.31	0.841	1.56	1.13	2.85	1982
1983	1.05	1.06	1.04	15.1	18.0	8.35	4.42	1.85	1.18	1.08	0.930	0.867	4.59	1983
1984	0.877	0.303	0.099	0.245	4.15	3.59	2.39	1.19	0.883	0.535	0.745	0.780	1.30	1984
1985	0.734	0.697	1.43	7.58	6.84	2.53	1.80	2.86	3.83	4.43	4.87	0.984	3.17	1985
1986	0.842	0.644	0.888	23.0	30.0	8.15	3.87	2.33	1.14	2.78	1.89	0.852	6.42	1986
1987	0.917	1.33	2.03	32.2	9.09	2.28	1.11	0.798	0.882	1.80	0.934	0.762	4.47	1987
1988	0.784	0.724	0.885	3.86	11.2	1.84	0.479	0.261	0.032	0.008	0.122	0.381	1.89	1988
MEAN	1.40	1.30	1.28	11.7	15.8	9.71	6.80	2.85	2.85	2.68	1.99	1.49	4.58	MEAN

LOCATION - LAT 50 01 26 N
LONG 100 12 56 W
DRAINAGE AREA, 3 810 km^2
REGULATED SINCE 1980

REMARKS - PUBLISHED AS "MINNEDOSA RIVER" PRIOR TO 1979

LITTLE SASKATCHEWAN RIVER NEAR RIVERS - STATION NO. 05MF018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1944	---	---	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	---	---	---	1947
1948	---	---	---	---	1948
1949	---	84.6 ON MAY 5	---	---	1949
1950	---	---	---	---	1950
1951	---	57.8 ON MAY 24	---	---	1951
1952	---	32.0 B ON APR 4	---	---	1952
1953	---	32.3 ON SEP 12	0 B ON MAR 1 *	---	1953
1954	---	35.4 ON JUN 11	---	---	1954
1955	---	26.2 ON JUN 16	---	---	1955
1956	---	32.0 ON APR 12	---	---	1956
1957	---	55.1 ON JUN 26	0.2278 ON FEB 12	444 000	1957
1958	---	58.6 ON MAY 3	0.5388 ON DEC 25	237 000	1958
1959	---	17.8 B ON APR 1	0 ON SEP 10	58 500	1959
1960	---	9.08 ON MAY 21	0 B ON JAN 13	85 500	1960
1961	---	29.4 ON APR 25	0.0858 ON MAR 5	167 000	1961
1962	---	0.728E ON JUN 30	0 E ON NOV 13	12 200	1962
1963	---	1.98 E ON JUN 8	0.008E ON OCT 4	25 800	1963
1964	---	35.7 ON JUN 11	0.020E ON MAR 30	114 000	1964
1965	---	14.8 ON MAY 11	0.045 ON SEP 18	84 300	1965
1966	---	28.7 ON JUL 21	1.84 ON APR 8	188 000	1966
1967	---	19.5 ON MAY 14	0.048 ON APR 19	127 000	1967
1968	---	41.1 ON APR 19	0.031 ON SEP 6	154 000	1968
1969	---	8.35 ON AUG 16	0 ON APR 8	97 400	1969
1970	82.0 AT 02:08 CST ON MAY 16 *	103 A ON APR 15 *	0.093A ON APR 9	205 000	1970
1971	37.4 AT 16:00 CST ON JUN 18	87.2 ON MAY 15	0.054 ON APR 21	291 000	1971
1972	47.3 AT 01:21 CST ON APR 18	36.8 ON JUN 16	0.816 ON APR 14	221 000	1972
1973	---	45.9 ON APR 18	0.462 ON SEP 6	184 000	1973
1974	70.2 AT 17:53 CST ON APR 21	7.18 ON OCT 24	0.314 ON SEP 1	57 300	1974
	"	88.2 ON APR 21	0.810 ON DEC 25	233 000	
1975	52.1 AT 06:00 CST ON SEP 30	51.5 ON SEP 30	0.7428 ON MAR 13	293 000	1975
1976	73.9 AT 11:35 CST ON APR 21	72.8 ON APR 21	0.885 ON OCT 31	278 000	1976
1977	8.13 AT 12:00 CST ON OCT 24	7.82 ON JUL 23	0.258 ON JUL 10	84 600	1977
1978	17.8 AT 13:20 CST ON MAY 8	17.0 ON MAY 8	0.785 ON NOV 2	84 300	1978
1979	88.9 AT 06:07 CST ON APR 24	86.9 ON APR 24	0.7628 ON FEB 2	245 000	1979
1980	10.4 AT 12:44 CST ON SEP 23	8.20 ON SEP 24	0.034 ON JUL 27	54 100	1980
1981	6.23 AT 07:55 CST ON APR 13	5.00 ON APR 13	1.01 ON OCT 6	63 400	1981
1982	24.2 AT 14:13 CST ON APR 24	23.9 ON APR 24	0.822 ON OCT 7	89 800	1982
1983	48.6 AT 04:25 CST ON APR 24	47.8 ON APR 24	0.8618 ON DEC 17	145 000	1983
1984	7.42 AT 21:14 CST ON MAY 23	6.85 ON MAY 23	0.035 ON MAR 28	41 200	1984
1985	18.0 AT 19:27 CST ON APR 25	15.5 ON APR 24	0.580 ON AUG 2	100 000	1985
1986	51.9 AT 11:58 CST ON MAY 16	51.3 ON MAY 16	0.388 ON SEP 12	202 000	1986
1987	85.5 AT 14:05 CST ON APR 8	61.3 ON APR 10	0.106 ON SEP 5	141 000	1987
1988	20.9 AT 05:21 CST ON MAY 15	20.1 ON MAY 15	0.002 ON SEP 15	53 500	1988
				145 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0	1.04	0.275	0	0	0	0	0	---	---	0.182	1961
1962	---	---	0	3.87	0.144	0.184	0.006	0.003	0	0	---	---	0.516	1962
1963	---	---	0.100	0.009	0.011	0.138	0.005	0	0	0	---	---	0.033	1963
1964	---	---	0	2.74	0.182	0.025	0.026	0	0.158	0.015	---	---	0.386	1964
1965	---	---	0	5.82	0.214	0.116	0.016	0	0.013	0.004	---	---	0.770	1965
1966	---	---	1.25	0.438	0.219	0.130	0.091	0.004	0	0	---	---	0.287	1966
1967	---	---	0	1.14	0.187	0.011	0	0	0	0	---	---	0.153	1967
1968	---	---	0.484	0.048	0.005	0.001	0	0	0.003	0	---	---	0.066	1968
1969	---	---	0	8.19	0.298	0.245	0.808	0.016	0.002	0	---	---	0.905	1969
1970	---	---	0	4.14	1.17	0.084	0.216	0.002	0	0	---	---	0.893	1970
1971	---	---	0.015	0.741	0.022	0.342	0.207	0.015	0	0	---	---	0.185	1971
1972	---	---	1.80	0.528	0.110	0.119	0.004	0	0	0	---	---	0.287	1972
1973	---	---	0	0	0.002	0.001	0	0	0	0	---	---	0	1973
1974	---	---	0	9.80	2.02	0.140	0.001	0	0	0	---	---	1.47	1974
1975	---	---	0	2.78	0.401	0.427	0.012	0.180	0.178	0.251	---	---	0.821	1975
1976	---	---	0.032	12.2	0.337	0.089	0.006	0	0	0	---	---	1.58	1976
1977	---	---	0.001	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.158	1.41	0.088	0.003	0.001	0	0	0	---	---	0.204	1978
1979	---	---	0	4.58	0.589	0.018	0.008	0.001	0	0	---	---	0.836	1979
1980	---	---	0	0.252	0	0	0	0	0	0	---	---	0.031	1980
1981	---	---	0.147	0.038	0.017	0	0	0.170	0.021	0.020	---	---	0.052	1981
1982	---	---	0.525	3.33	0.197	0.040	0.004	0.002	0	0	---	---	0.505	1982
1983	---	---	0.048	3.81	0.050	0.022	0	0	0	0	---	---	0.487	1983
1984	---	---	0.140	0.027	0.299	0	0	0	0	0	---	---	0.059	1984
1985	---	---	2.34	1.31	0.018	0.002	0	0.012	0.003	0.023	---	---	0.484	1985
1986	---	---	2.07	0.705	0.777	0.001	0.018	0.017	0	0	---	---	0.451	1986
1987	---	---	1.08	2.84	0.028	0.001	0	0	0	0	---	---	0.484	1987
1988	---	---	0	0	0	0	0.141	0	0	0	---	---	0.018	1988
MEAN	---	---	0.358	2.48	0.272	0.078	0.048	0.015	0.013	0.011	---	---	0.494	MEAN

LOCATION - LAT 49 43 55 N LONG 99 50 52 W
DRAINAGE AREA, 454 km^2
NATURAL FLOW

LITTLE SOURIS RIVER NEAR BRANDON - STATION NO. 05MH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	4.25 ON APR 9	0.0 ON MAR 1 *	3 430	1981
1982	---	36.2 ON APR 18	0.2 ON MAR 1	10 900	1982
1983	---	1.29 ON JUN 4	0.0 ON MAR 1	895	1983
1984	---	37.1 ON APR 12	0.0 ON MAR 1	8 180	1984
1985	---	36.2 B ON APR 13	0.0 ON MAR 1	16 300	1985
1986	---	10.7 B ON MAR 22	0.0 ON MAR 1	5 550	1986
1987	---	2.61 ON APR 27	0.0 ON MAR 1	3 450	1987
1988	---	2.86 B ON MAR 26	0.0 ON MAR 1	1 400	1988
1989	---	40.2 B ON APR 12	0.0 ON MAR 1	19 100	1989
1970	---	22.1 ON APR 26	0.0 ON MAR 1	14 600	1970
1971	---	3.00 B ON APR 7	0.0 ON MAR 1	3 500	1971
1972	---	8.50 B ON MAR 16	0.0 ON MAR 1	8 270	1972
1973	---	0.008 ON MAY 23	0.0 ON MAR 1	9.41	1973
1974	---	80.0 ON APR 20 *	0.0 ON MAR 1	31 200	1974
1975	---	17.6 ON APR 28	0.0 ON MAR 1	11 000	1975
1976	---	84.4 B ON APR 8	0 ON AUG 7	32 900	1976
1977	---	0.0078 ON MAR 16	0.0 ON MAR 1	2.51	1977
1978	---	9.50 B ON APR 1	0.0 ON MAR 1	4 320	1978
1979	58.4 B AT 07:24 CST ON APR 22 *	45.3 B ON APR 22	0.0 ON MAR 1	13 500	1979
1980	5.008 AT 17:40 CST ON APR 6	2.75 B ON APR 7	0.0 ON MAR 1	855	1980
1981	4.43 AT 16:44 CST ON AUG 25	2.11 ON AUG 26	0 ON MAY 28	1 110	1981
1982	22.8 B AT 15:08 CST ON APR 13	22.1 B ON APR 13	0.0 ON MAR 1	10 700	1982
1983	16.5 AT 18:21 CST ON APR 8	14.2 ON APR 8	0.0 ON MAR 1	9 670	1983
1984	---	2.21 E ON MAY 6	0.0 ON MAR 1	1 240	1984
1985	13.7 B AT 02:53 CST ON MAR 26	12.3 B ON MAR 25	0.0 ON MAR 1	9 620	1985
1986	20.6 B AT 20:42 CST ON MAR 23	16.2 B ON MAR 23	0.0 ON MAR 1	9 550	1986
1987	25.6 B AT 18:53 CST ON APR 4	20.5 B ON APR 4	0.0 ON MAR 1	9 830	1987
1988	2.77 AT 09:39 CST ON JUL 8	1.94 ON JUL 8	0.0 ON MAR 1	378	1988
				8 550	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1976	---	---	---	---	---	---	0.521	0.075	0.053	0.154	---	---	---	1976
1977	---	---	0.076	1.14	0.508	0.190	0.915	1.51	1.15	0.762	---	---	---	1977
1978	---	---	0.059	0.754	1.44	0.552	0.391	0.202	0.324	0.728	---	---	0.782	1978
1979	---	---	0.087	0.432	3.20	1.25	0.159	0.048	0.177	0.213	---	---	0.558	1979
1980	---	---	0.065	1.16	0.245	0.207	0.145	0.585	0.619	---	---	---	0.695	1980
1981	---	---	0.058	1.33	0.714	0.585	0.534	0.180	0.298	1.07	---	---	---	1981
1982	---	---	0	0.330	1.07	0.599	2.06	0.270	0.152	0.351	---	---	0.581	1982
1983	---	---	0.084	0.587	2.76	1.83	0.892	0.159	0.357	0.183	---	---	0.806	1983
1984	---	---	0.063	2.46	2.77	2.06	0.252	0.059	0.270	1.02	---	---	0.872	1984
1985	---	---	0.142	1.88	1.55	1.35	0.854	2.26	0.714	1.12	---	---	1.11	1985
1986	---	---	0.077	1.19	1.72	0.861	0.498	0.415	0.357	0.384	---	---	1.24	1986
1987	---	---	0.090	1.16	0.489	0.542	1.04	0.319	0.233	0.871	---	---	0.581	1987
MEAN	---	---	0.075	1.13	1.50	0.901	0.589	0.505	0.383	0.633	---	---	0.772	MEAN

LOCATION - LAT 52 50 00 N
LONG 101 34 00 W
DRAINAGE AREA, 69.7 km^2
NATURAL FLOW

LITTLE WOODY RIVER NEAR BARROWS - STATION NO. 05LC005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1976	---	---	---	---	1976
1977	10.8 AT 17:48 CST ON AUG 10	7.87 ON AUG 10	0.040 ON JUN 29	16 800	1977
1978	4.73 AT 00:00 CST ON APR 28	4.25 ON APR 28	0.0578 ON MAR 1	11 800	1978
1979	11.9 AT 20:43 CST ON MAY 25	10.4 ON MAY 25	0.030 ON AUG 22	14 700	1979
1980	4.80 AT 17:59 CST ON SEP 4	4.05 ON APR 22	0.018 ON AUG 2	---	1980
1981	8.03 AT 12:55 CST ON OCT 13	4.84 ON OCT 13	0.032 ON SEP 2	12 600	1981
1982	---	22.7 ON JUL 17	0 B ON MAR 1 *	12 800	1982
1983	13.3 AT 11:04 CST ON JUN 3	10.3 ON JUN 3	0.058 ON SEP 3	18 500	1983
1984	9.40 AT 22:19 CST ON JUN 21	7.12 ON JUN 22	0.028 ON AUG 29	23 600	1984
1985	41.5 AT 15:09 CST ON AUG 13 *	25.7 ON AUG 13 *	0.1108 ON MAR 1	28 200	1985
1986	3.40 AT 17:44 CST ON APR 25	3.12 ON MAY 15	0.0588 ON MAR 3	14 000	1986
1987	7.59 AT 11:26 CST ON OCT 5	5.26 ON OCT 5	0.082 ON OCT 3	12 800	1987
				16 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05DA002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	0.885	0.089	0.056	0.015	0.012	0.022	0.021	---	---	---	1921
1922	---	---	---	0.886	0.116	0.026	0.089	0.009	0.009	0.011	---	---	---	1922
1923	---	---	---	---	0.458	0.464	0.319	0.074	---	---	---	---	---	1923
1924	---	---	---	---	1.20	0.456	0.144	0.090	0.012	0.174	---	---	---	1924
1925	---	---	---	1.15	0.393	1.49	0.288	0.043	0.034	0.052	---	---	---	1925
1926	---	---	---	0.184	0.058	0.241	0.196	0.032	0.030	---	---	---	---	1926
1927	---	---	---	1.03	5.80	2.60	1.37	0.337	0.226	0.259	---	---	---	1927
1928	---	---	2.13	0.558	0.233	1.99	2.14	0.418	0.105	0.084	0.048	---	---	1928
1929	---	---	---	---	0.203	0.145	0.023	0.016	0.027	0.038	---	---	---	1929
1930	---	---	---	---	0.834	---	---	---	---	---	---	---	---	1930
1936	---	---	---	---	0.137	0.039	---	---	---	---	---	---	---	1936
MEAN	---	---	2.13	0.782	0.875	0.751	0.507	0.116	0.058	0.088	0.048	---	---	MEAN

LOCATION - LAT 49 08 25 N DRAINAGE AREA, 481 km²
LONG 99 32 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1979

LONG RIVER ABOVE BADGER CREEK - STATION NO. 05DA002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1921	---	---	---	---	1921
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	10.4 ON MAY 24 *	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1936	---	---	---	---	1936
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

LONG RIVER NEAR HOLMFIELD - STATION NO. 05DA006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.358	0.108	0.078	0.022	0.008	0.333	0.023	1.34	---	---	0.288	1959
1960	---	---	0	8.02	1.94	1.21	0.081	0.004	0	0.002	---	---	1.14	1960
1961	---	---	0.063	0.518	0.252	0.038	0	0	0	0	---	---	0.108	1961
1962	---	---	0	1.27	0.243	1.88	0.181	0.360	0.062	0.048	---	---	0.475	1962
1963	---	---	0.408	1.28	0.536	1.45	0.230	0.066	0.021	0.005	---	---	0.496	1963
1964	---	---	0	2.27	0.897	0.345	0.085	0.018	0.030	0.019	---	---	0.452	1964
1965	---	---	0	3.20	1.48	1.07	0.704	0.813	0.350	0.237	---	---	0.950	1965
1966	---	---	1.82	2.07	1.93	0.580	0.709	0.187	0.014	0.028	---	---	0.913	1966
1967	---	---	0.084	1.34	0.887	0.218	0.048	0	0	0.017	---	---	0.318	1967
1968	---	---	0.140	0.288	0.190	0.040	0.047	0.852	1.28	0.272	---	---	0.358	1968
1969	---	---	0	8.98	2.28	0.522	1.48	0.128	0.020	0.072	---	---	1.87	1969
1970	---	---	0	2.83	3.93	1.12	0.418	0.044	0.068	0.081	---	---	1.08	1970
1971	---	---	0	2.88	1.12	2.52	2.18	0.128	0.074	0.488	---	---	1.17	1971
1972	---	---	3.03	5.54	1.93	2.84	0.383	0.598	0.104	0.140	---	---	1.78	1972
1973	---	---	0.435	0.247	0.388	0.711	0.549	0.187	0.280	0.188	---	---	0.388	1973
1974	---	---	0	11.2	6.57	1.99	0.232	0.067	0.048	0.108	---	---	2.50	1974
1975	---	---	0	4.95	3.98	1.44	0.258	0.088	0.188	0.288	---	---	1.38	1975
1976	---	---	0.287	11.2	1.30	0.272	0.027	0.003	0.003	0.083	---	---	1.82	1976
1977	---	---	0.131	0.134	0.235	0.016	0.080	0	0.004	0.014	---	---	0.077	1977
1978	---	---	0.015	2.50	1.08	0.448	0.025	0	0.004	0.005	---	---	0.504	1978
1979	---	---	0	5.28	3.12	0.421	0.033	0.003	0.002	0.010	---	---	1.10	1979
1980	---	---	0.002	0.704	0.008	0.005	0	0.053	0.048	0.113	---	---	0.115	1980
1981	---	0.235	0.218	0.101	0.193	0.148	0.042	0.124	0.036	0.053	---	---	0.115	1981
1982	---	---	0.495	5.42	0.920	0.517	0.113	0.008	0.005	0.135	---	---	0.840	1982
1983	---	---	0.852	3.21	0.871	0.114	0.014	0	0.002	0.018	---	---	0.579	1983
1984	---	---	1.09	0.441	0.548	0.019	0	0	0	0.011	---	---	0.281	1984
1985	---	---	2.36	1.08	0.090	0.026	0.008	0.037	0.014	0.020	---	---	0.485	1985
1986	---	---	0.822	1.81	1.15	0.088	0.338	0.118	0.121	0.712	---	---	0.821	1986
1987	---	---	2.44	3.43	0.112	0.002	0	1.75	0.031	0.029	---	---	0.972	1987
1988	---	---	0.118	0.188	0.084	0.008	0	0	0	0	---	---	0.048	1988
MEAN	---	0.235	0.497	3.01	1.27	0.556	0.274	0.188	0.093	0.148	---	---	0.781	MEAN

LOCATION - LAT 49 08 51 N DRAINAGE AREA, 576 km²
LONG 99 24 51 W REGULATED SINCE 1958

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.08 AND 0 m³/s OCCURRED IN FEB

LONG RIVER NEAR HOLMFIELD - STATION NO. 05DA005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	4.98 ON OCT 26	0 B ON MAR 1 *	8 080	1959
1960	---	15.6 B ON APR 7	0 B ON MAR 1	24 100	1960
1961	---	0.9778 ON APR 18	0 B ON MAR 1	3 280	1961
1962	---	10.3 ON JUN 15	0 B ON MAR 1	10 100	1962
1963	---	4.81 ON JUN 5	0 B ON MAR 1	10 500	1963
1964	---	5.62 B ON APR 7	0 B ON MAR 1	9 580	1964
1965	---	8.86 B ON APR 13	0 B ON MAR 1	20 100	1965
1966	---	5.32 B ON MAR 31	0 B ON MAR 1	19 300	1966
1967	---	2.97 ON APR 29	0 B ON MAR 1	6 730	1967
1968	---	3.11 ON SEP 9	0 B ON MAR 1	7 580	1968
1969	---	33.1 B ON APR 13	0 B ON MAR 1	35 300	1969
1970	---	11.4 ON MAY 1	0 B ON MAR 1	22 300	1970
1971	---	7.78 ON APR 11	0 B ON MAR 1	24 700	1971
1972	---	13.8 B ON MAR 17	0 B ON MAR 1	37 800	1972
1973	---	2.70 ON JUN 22	0 B ON MAR 1	7 740	1973
1974	---	40.5 B ON APR 17 *	0 B ON MAR 1	53 000	1974
1975	---	17.6 ON APR 29	0 B ON MAR 1	29 200	1975
1976	---	24.1 B ON APR 2	0 ON JUL 26	34 300	1976
1977	---	2.41 ON MAY 21	0 ON JUL 9	1 630	1977
1978	---	5.66 ON MAY 26	0 B ON MAR 1	10 700	1978
1979	---	23.5 B ON APR 22	0 B ON MAR 1	23 300	1979
1980	---	3.02 B ON APR 5	0 B ON MAR 1	2 440	1980
1981	---	0.551 ON AUG 8	0.001 ON JUL 26	2 430	1981
1982	15.7 B AT 11 05 CST ON APR 3	11.4 B ON APR 3	0 B ON MAR 1	19 800	1982
1983	5.698 AT 11 48 CST ON APR 1	5.28 B ON APR 2	0 B ON MAR 1	12 300	1983
1984	4.588 AT 07 45 CST ON MAR 24	3.91 B ON MAR 23	0 ON JUN 26	5 520	1984
1985	---	12.5 B ON MAR 18	0 B ON MAR 1	9 840	1985
1986	4.78 AT 00 33 CST ON APR 21	4.41 ON APR 21	0 B ON MAR 1	13 100	1986
1987	20.4 AT 21 58 CST ON AUG 15 *	18.4 ON AUG 16	0 B ON MAR 1	20 800	1987
1988	---	0.8888 ON APR 3	0 B ON MAR 1	1 020	1988
				18 100	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.051	0.988	0.448	0.075	0.003	0	0	0	---	---	0.193	1967
1968	---	---	0.065	0.153	0.185	0.010	0.001	0.342	0.883	0.138	---	---	0.178	1968
1969	---	---	0	5.38	1.55	0.483	0.908	0.110	0.017	0.050	---	---	1.05	1969
1970	---	---	0.003	1.82	2.40	0.718	0.145	0.018	0	0	---	---	0.810	1970
1971	---	---	0	2.02	0.520	0.882	1.03	0.015	0	0.284	---	---	0.594	1971
1972	---	---	1.18	2.87	1.51	1.19	0.180	0.274	0.044	0.054	---	---	0.805	1972
1973	---	---	0.298	0.208	0.380	0.543	0.251	0.041	0.120	0.148	---	---	0.248	1973
1974	---	---	0	4.85	4.26	1.46	0.158	0.017	0.012	0.018	---	---	1.34	1974
1975	---	---	0	2.43	2.08	1.15	0.205	0.003	0.038	0.185	---	---	0.783	1975
1976	---	---	0.349	7.32	1.07	0.292	0.002	0	0	0	---	---	1.11	1976
MEAN	---	---	0.195	2.78	1.46	0.588	0.288	0.082	0.078	0.081	---	---	0.898	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA, 209 km^2
LONG 99 40 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "WHITEMUD CREEK" PRIOR TO 1978

LONG RIVER NEAR KILLARNEY - STATION NO. 05DA013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	2.06 ON APR 30	0B ON MAR 1 *	4 080	1967
1968	---	2.01 UN AUG 28	0B ON MAR 1	3 750	1968
1969	---	16.8 ON APR 12	0B ON MAR 1	32 100	1969
1970	---	6.40 ON APR 30	0B ON MAR 1	12 900	1970
1971	---	5.018 ON APR 7	0B ON MAR 1	12 600	1971
1972	---	4.87 ON JUN 14	0B ON MAR 1	19 200	1972
1973	---	3.03 ON JUN 21	0B ON MAR 1	5 250	1973
1974	---	20.2 ON APR 21	0B ON MAR 1	28 300	1974
1975	---	8.898 ON APR 28	0B ON MAR 1	15 800	1975
1976	---	20.6 ON APR 7 *	0 ON JUL 5	23 600	1976
				14 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR LYONSHALL - STATION NO. 05DA014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	---	---	---	---	---	---	---	---	---	1973
1974	---	---	0	4.85	4.18	1.31	0.100	0.038	0.018	0.014	---	---	1.30	1974
1975	---	---	0	2.47	1.82	0.624	0.057	0.026	0.050	0.090	---	---	0.637	1975
1976	---	---	0.188	3.76	0.862	0.198	0.024	0.003	0.001	0.004	---	---	0.622	1976
1977	---	---	0.008	0.028	0.089	0.002	0.002	0.002	0.008	0.003	---	---	0.025	1977
1978	---	---	0.023	0.800	0.414	0.160	0.041	0	0	0.004	---	---	0.142	1978
1979	---	---	0.008	1.89	0.883	0.189	0.050	0.003	0.052	0.011	---	---	0.380	1979
1980	---	---	0.005	0.131	0.003	0.004	0	0.006	0.070	0.121	---	---	0.042	1980
1981	---	0.217	0.151	0.115	0.137	0.242	0.062	0.011	0.002	0.024	---	---	0.093	1981
1982	---	---	0.028	1.13	0.482	0.232	0.036	0.020	0.002	0.052	---	---	0.248	1982
MEAN	---	0.217	0.048	1.85	0.981	0.328	0.072	0.021	0.040	0.043	---	---	0.387	MEAN

LOCATION - LAT 49 07 56 N DRAINAGE AREA, 168 km²
LONG 99 48 04 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.09 AND 0 m³/s OCCURRED IN FEB

LONG RIVER NEAR LYONSHALL - STATION NO. 05DA014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1973	---	---	---	---	1973
1974	25.4 AT 18:12 CST ON APR 21 *	21.3 ON APR 21 *	OB ON MAR 1 *	27 700	1974
1975	15.6 AT 08:11 CST ON APR 29	13.4 ON APR 29	OB ON MAR 1	13 600	1975
1976	9.65 AT 20:54 CST ON APR 7	7.42 ON APR 18	0 ON AUG 7	13 200	1976
1977	1.65 AT 14:16 CST ON JUL 11	1.26 ON JUL 11	OB ON MAR 1	533	1977
1978	5.35 AT 10:11 CST ON MAY 25	3.85 ON MAY 26	0 ON AUG 7	3 010	1978
1979	10.8 AT 00:00 CST ON APR 22	8.00 ON APR 22	0 ON JUL 20	8 030	1979
1980	---	0.2438 ON APR 1	OB ON MAR 1	894	1980
1981	---	0.368 ON JUN 24	0 ON JUL 21	1 980	1981
1982	8.40 AT 00:00 CST ON APR 18	5.33 ON APR 18	OB ON MAR 1	5 200	1982
				8 230	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LONG RIVER NEAR WAKOPA - STATION NO. 05DA009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	0.068	0.045	0.121	0.034	0	0	0	---	---	0.030	1982
1983	---	---	0.248	0.503	0.154	0.431	0.020	0	0	0	---	---	0.167	1983
1984	---	---	0	0.705	0.454	0.219	0.066	0	0.036	0.025	---	---	0.187	1984
1985	---	---	0	1.62	0.989	0.646	0.545	0.426	0.241	0.087	---	---	0.578	1985
1986	---	---	0.881	1.42	1.49	0.259	0.410	0.054	0.001	0	---	---	0.581	1986
1987	---	---	0.003	0.737	0.360	0.047	0	0	0	0	---	---	0.141	1987
1988	---	---	0.056	0.181	0.118	0.009	0	0.329	0.313	0.182	---	---	0.148	1988
1989	---	---	0	5.82	1.52	0.812	0.752	0.098	0.012	0.032	---	---	1.09	1989
1990	---	---	0.046	2.14	2.40	0.575	0.219	0.058	0	0	---	---	0.677	1990
1991	---	---	0	1.28	0.441	1.07	1.00	0.057	0	0.328	---	---	0.518	1991
1992	---	---	0.883	2.84	1.82	0.872	0.111	0.174	0.059	0.061	---	---	0.849	1992
1993	---	---	0.192	0.124	0.242	---	---	---	---	---	---	---	---	1993
MEAN	---	---	0.175	1.46	0.842	0.442	0.286	0.108	0.080	0.066	---	---	0.450	MEAN

LOCATION - LAT 49 08 10 N DRAINAGE AREA, 142 km²
LONG 99 50 10 W NATURAL FLOW

REMARKS - PUBLISHED AS "WAKOPA CREEK" PRIOR TO 1979

LONG RIVER NEAR WAKOPA - STATION NO. 05DA009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1982	---	0.671 ON JUN 17	OB ON MAR 1 *	844	1982
1983	---	1.51 ON JUN 4	OB ON MAR 1	3 540	1983
1984	---	1.81 ON APR 17	OB ON MAR 1	3 950	1984
1985	---	3.08 B ON APR 17	OB ON MAR 1	12 300	1985
1986	---	3.00 B ON APR 1	OB ON MAR 1	11 800	1986
1987	---	0.886 ON APR 24	OB ON MAR 1	2 880	1987
1988	---	2.19 ON AUG 25	OB ON MAR 1	3 160	1988
1989	---	18.3 B ON APR 12 *	OB ON MAR 1	23 100	1989
1990	---	8.38 ON APR 29	OB ON MAR 1	14 300	1990
1991	---	5.92 ON JUN 15	OB ON MAR 1	11 000	1991
1992	---	4.30 B ON APR 18	OB ON MAR 1	18 000	1992
1993	---	---	---	---	1993
				9 530	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	0.644	0.581	0.486	4.23	8.19	6.12	---	---	1.74	1.88	1.27	0.773	---	1977
1978	0.575	0.440	0.388	0.488	4.26	2.84	1.42	1.78	2.24	3.42	1.73	0.898	1.71	1978
1979	0.674	0.637	0.818	0.681	2.77	2.67	0.950	0.788	1.47	2.08	1.57	0.869	1.33	1979
1980	0.657	0.582	0.441	2.44	2.02	0.388	0.805	1.82	3.73	4.24	1.44	0.834	1.60	1980
1981	0.647	0.528	0.506	0.528	3.71	1.23	0.850	0.464	0.262	0.216	0.188	0.168	0.760	1981
1982	0.171	0.227	0.284	0.404	8.87	8.21	2.20	7.31	3.30	0.986	0.588	0.488	2.43	1982
1983	0.484	0.470	0.423	0.813	3.94	5.88	2.15	1.48	7.11	4.67	1.48	0.770	2.45	1983
1984	0.510	0.471	0.580	3.83	2.48	1.65	0.947	2.71	4.83	2.05	1.72	1.13	1.89	1984
1985	0.820	0.672	0.592	1.85	8.19	3.88	2.72	2.57	0.877	0.700	0.584	0.333	1.98	1985
1986	0.248	0.208	0.183	0.834	8.30	2.72	4.31	4.88	1.10	0.775	0.641	0.623	1.88	1986
1987	0.558	0.519	0.499	2.84	4.55	2.79	1.83	0.819	---	---	---	---	---	1987
MEAN	0.582	0.485	0.452	1.70	4.68	3.25	1.78	2.43	2.66	2.10	1.12	0.700	1.78	MEAN

LOCATION - LAT 58 03 15 N LONG 101 51 30 W DRAINAGE AREA, 1 400 km² NATURAL FLOW

LOON RIVER ABOVE BRITTON LAKE - STATION NO. 05EA005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	11.7 AT 18:30 CST ON MAY 30	11.5 ON MAY 30	0.357 ON APR 3	---	1977
1978	5.15 AT 22:04 CST ON MAY 10	5.10 ON MAY 7	0.3778 ON MAR 17	53 800	1978
1979	5.21 AT 01:50 CST ON MAY 27	5.07 ON MAY 26	0.476 ON APR 6	42 100	1979
1980	5.77 AT 22:04 CST ON APR 24	5.69 ON APR 24	0.312 ON JUN 24	50 700	1980
1981	5.68 AT 11 53 CST ON MAY 9	5.48 ON MAY 10	0.1858 ON DEC 25	24 000	1981
1982	12.1 AT 12:00 CST ON AUG 20	12.1 ON AUG 20	0.1808 ON JAN 7 *	78 600	1982
1983	12.5 AT 23:59 CST ON SEP 20 *	12.5 ON SEP 21 *	0.3858 ON MAR 25	77 400	1983
1984	8.27 ON AUG 24	8.10 ON AUG 24	0.293 ON AUG 8	59 700	1984
1985	11.1 AT 01:00 CST ON MAY 5	11.0 ON MAY 5	0.2908 ON DEC 31	62 500	1985
1986	10.2 ON MAY 17	10.2 ON MAY 17	0.1708 ON MAR 31	59 300	1986
1987	9.82 AT 17:26 CST ON APR 28	9.79 ON APR 28	---	---	1987
				58 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05DD028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	4.24	0.037	0	0	0	0	0	---	---	0.524	1960
1961	---	---	0.142	0.441	0	0	0	0	0	0.001	---	---	0.072	1961
1962	---	---	0	3.29	0.754	0.101	0.134	0.014	0	0	---	---	0.529	1962
1963	---	---	0	0.027	0.007	1.78	0.251	0.027	0	0	---	---	0.259	1963
1964	---	---	0	2.17	1.05	4.32	0	0	0.254	0.015	---	---	0.950	1964
1965	---	---	0	5.34	0.275	0.001	0.032	0.014	1.05	0.881	---	---	0.939	1965
1966	---	---	0.480	8.11	1.70	0.183	0.843	0.011	0.112	0	---	---	1.17	1966
1967	---	---	1.47	8.44	3.46	0.001	0	0	0	0	---	---	1.78	1967
1968	---	---	1.82	0.779	0.012	0.248	2.15	1.38	3.31	0.173	---	---	1.24	1968
1969	---	---	0	3.22	0.278	0.207	0.013	0	0	0.030	---	---	0.481	1969
1970	---	---	0	3.81	1.73	1.02	0.005	0	0.065	0	---	---	0.830	1970
1971	---	---	0	3.07	0.032	0.078	0	0	0	0	---	---	0.383	1971
1972	---	---	0.502	1.31	0	0	0	0	0	0	---	---	0.223	1972
1973	---	---	0.375	0.002	0	0.148	0	0	0	0	---	---	0.130	1973
1974	---	---	0	6.65	2.78	0.105	0	0	0.138	0.373	---	---	1.18	1974
1975	---	---	0	1.23	0.188	0.895	0.130	0.002	0.001	0.001	---	---	0.274	1975
1976	---	---	0	2.08	0	0.052	0.001	0	0	0	---	---	0.281	1976
1977	---	---	0.028	0.274	0	0	0	0	0	0	---	---	0.037	1977
1978	---	---	0.738	1.90	0.003	0	0	0	0.011	0	---	---	0.326	1978
1979	---	---	0	7.96	0.374	0.287	0.006	0	0	0	---	---	1.08	1979
1980	---	---	0.003	1.00	0	0	0.001	0	0.001	0.003	---	---	0.124	1980
1981	---	---	0.325	0.044	0.014	0.003	0	0	0	0.001	---	---	0.048	1981
1982	---	---	0.186	1.29	0.006	0.034	0.283	0.026	0	0.134	---	---	0.242	1982
1983	---	---	1.18	2.07	0.184	0.005	0.001	0	0	0	---	---	0.414	1983
1984	---	---	0.151	0.182	0.003	0.105	0.002	0	0	0	---	---	0.055	1984
1985	---	---	1.04	0.183	0.037	0	0.001	0.107	0.034	0.124	---	---	0.192	1985
1986	---	---	2.06	1.83	1.21	0.001	0.014	0	0	0	---	---	0.818	1986
1987	---	---	0.414	3.18	0	0	0	0	0	0	---	---	0.438	1987
1988	---	---	0.005	0.228	0	0	0	0	0	0	---	---	0.029	1988
MEAN	---	---	0.376	2.53	0.483	0.321	0.134	0.054	0.173	0.080	---	---	0.510	MEAN

LOCATION - LAT 48 08 01 N LONG 97 08 42 W DRAINAGE AREA, 177 km² NATURAL FLOW

MAIN DRAIN NEAR DOMINION CITY - STATION NO. 05OD028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	15.2 ON APR 6	0B ON MAR 1 *	11 100	1960
1961	---	1.97 B ON MAR 25	0B ON MAR 1	1 520	1961
1962	---	13.1 ON APR 23	0B ON MAR 1	11 200	1962
1963	---	12.9 ON JUN 26	0 ON MAR 1	6 470	1963
1964	---	35.4 ON JUN 12	0B ON MAR 1	20 300	1964
1965	---	24.4 B ON APR 12	0B ON MAR 1	18 900	1965
1966	---	19.8 B ON APR 2	0B ON MAR 1	24 700	1966
1967	---	28.6 ON MAR 31	0B ON MAR 1	37 700	1967
1968	---	19.8 ON SEP 7	0B ON MAR 1	28 300	1968
1969	---	10.7 ON APR 11	0B ON MAR 1	9 760	1969
1970	---	9.06 ON APR 22	0B ON MAR 1	17 600	1970
1971	---	18.2 ON APR 8	0B ON MAR 1	8 120	1971
1972	---	2.89 B ON APR 11	0B ON MAR 1	4 720	1972
1973	---	4.59 ON OCT 10	0B ON MAR 1	2 740	1973
1974	29.4 AT 20:00 CST ON APR 21	28.0 ON APR 17	0B ON MAR 1	24 900	1974
1975	7.56 AT 04:27 CST ON JUN 29	7.42 ON JUN 29	0B ON MAR 1	5 810	1975
1976	16.4 B AT 02:06 CST ON APR 5	16.5 B ON APR 3	0B ON MAR 1	8 530	1976
1977	4.67 AT 22:33 CST ON APR 9	2.38 ON APR 10	0B ON MAR 1	781	1977
1978	10.6 AT 10:10 CST ON APR 8	8.47 ON APR 9	0B ON MAR 1	8 950	1978
1979	49.7 AT 12:30 CST ON APR 19 *	45.8 ON APR 19 *	0B ON MAR 1	22 300	1979
1980	---	4.53 ON APR 7	0B ON MAR 1	2 520	1980
1981	---	0.5008 ON MAR 1	0 ON APR 22	1 030	1981
1982	9.85 AT 21:51 CST ON APR 14	8.85 ON APR 15	0B ON MAR 1	5 110	1982
1983	10.2 B AT 17:03 CST ON APR 4	8.34 B ON APR 8	0B ON MAR 1	8 760	1983
1984	1.808 AT 23:42 CST ON MAR 31	1.30 B ON MAR 31	0B ON MAR 1	1 130	1984
1985	5.83 AT 21:50 CST ON MAR 24	5.37 B ON MAR 25	0B ON MAR 1	4 080	1985
1986	---	17.2 B ON MAR 31	0 ON JUN 14	13 000	1986
1987	---	13.3 A ON APR 8	0B ON MAR 1	8 280	1987
1988	---	1.24 A ON APR 5	0B ON MAR 1	805	1988
				10 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.010	0.652	0	0	0	0	0	0	---	---	0.081	1960
1961	---	---	0.022	0.036	0	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	0.427	0.079	0	0	0.004	0	0	---	---	0.083	1962
1963	---	---	0.001	0.004	0	0.915	0.009	0.006	0	0	---	---	0.114	1963
1964	---	---	0	0.211	0.033	0.484	0.002	0	0.051	0.003	---	---	0.097	1964
1965	---	---	0	0.171	0.029	0	0.287	0.087	0.332	0.246	---	---	0.139	1965
1966	---	---	0.374	1.11	0.281	0.001	0.141	0.015	0.032	0	---	---	0.256	1966
1967	---	---	0.058	0.588	0.213	0	0	0	0	0	---	---	0.118	1967
1968	---	---	0.550	0.049	0	0.007	0.072	0.209	0.152	0	---	---	0.132	1968
1969	---	---	0	0.289	0.004	0.018	0	0	0	0	---	---	0.035	1969
1970	---	---	0	0.700	0.307	0.026	0	0	0.033	0	---	---	0.132	1970
1971	---	---	0	0.563	0	0.007	0	0	0	0	---	---	0.070	1971
1972	---	---	0.098	0.248	0	0	0	0	0	0	---	---	0.043	1972
1973	---	---	0.045	0	0	0.008	0	0	0.001	0.089	---	---	0.015	1973
1974	---	---	0	0.889	0.205	0	0	0.002	0	0	---	---	0.135	1974
1975	---	---	0	0.193	0.017	0.025	0.008	0	0	0	---	---	0.030	1975
1976	---	---	0	0.278	0	0.001	0	0	0	0	---	---	0.034	1976
1977	---	---	0.048	0.027	0.003	0.001	0.001	0	0.001	0	---	---	0.010	1977
1978	---	---	0.184	0.181	0.001	0	0.001	0.001	0.014	0	---	---	0.048	1978
1979	---	---	0	1.88	0.022	0.015	0	0	0	0	---	---	0.210	1979
1980	---	---	0.001	0.148	0	0	0	0	0	0.001	---	---	0.018	1980
1981	---	---	0.032	0.006	0	0.002	0	0	0	0.002	---	---	0.005	1981
1982	---	---	0.049	0.333	0.001	0.020	0.117	0.005	0	0.071	---	---	0.074	1982
MEAN	---	---	0.088	0.384	0.052	0.087	0.027	0.013	0.029	0.017	---	---	0.081	MEAN

LOCATION - LAT 49 02 42 N, LONG 97 03 18 W DRAINAGE AREA, 23.6 km^2, NATURAL FLOW

MAIN DRAIN NEAR FREDENSTHAL - STATION NO. 05OD029

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	3.43 ON APR 6	0B ON MAR 1 *	1 720	1980
1981	---	0.215B ON APR 2	0B ON MAR 1	152	1981
1982	---	4.63 ON APR 21	0B ON MAR 1	1 330	1982
1983	---	8.50 R ON JUN 3	0 ON MAR 1	2 420	1983
1984	---	5.97 ON JUN 12	0B ON MAR 1	2 060	1984
1985	---	4.47 ON JUL 30	0B ON MAR 1	2 830	1985
1986	---	6.91 ON APR 2	0B ON MAR 1	5 280	1986
1987	---	3.17 ON APR 21	0B ON MAR 1	2 500	1987
1988	---	3.57 ON AUG 24	0B ON MAR 1	2 800	1988
1989	---	1.38 ON APR 11	0B ON MAR 1	731	1989
1970	---	4.73 ON APR 18	0B ON MAR 1	2 780	1970
1971	---	5.01 ON APR 7	0B ON MAR 1	1 480	1971
1972	---	0.680B ON APR 10	0B ON MAR 1	804	1972
1973	---	0.597 ON OCT 9	0B ON MAR 1	330	1973
1974	---	8.80 B ON APR 15	0B ON MAR 1	2 850	1974
1975	---	2.48 ON APR 13	0B ON MAR 1	633	1975
1976	---	2.57 B ON APR 3	0B ON MAR 1	726	1976
1977	---	0.784B ON MAR 28	0B ON MAR 1	214	1977
1978	1.76 AT 05:00 CST ON APR 9	1.34 B ON MAR 28	0B ON MAR 1	881	1978
1979	13.1 B AT 18:21 CST ON APR 18 *	12.1 B ON APR 18 *	0B ON MAR 1	4 460	1979
1980	1.87 AT 18:42 CST ON APR 2	1.80 B ON APR 3	0B ON MAR 1	387	1980
1981	0.147B AT 21:10 CST ON MAR 28	0.123B ON MAR 1	0B ON MAR 5	112	1981
1982	2.73 B AT 18:36 CST ON APR 12	2.25 B ON APR 12	0B ON MAR 1	1 570	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1988		1 710	MEAN

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.285	0.644	0.021	0	0	0	0	0	---	---	0.115	1983
1984	---	---	0.111	0.035	0	0.003	0	0	0	0.003	---	---	0.019	1984
1985	---	---	0.204	0.010	0	0.003	0.001	0.024	0.010	0.019	---	---	0.034	1985
1986	---	---	0.681	0.469	0.314	0	0.010	0	0	0	---	---	0.185	1986
1987	---	---	0.439	0.771	0.001	0	0	0	0	0	---	---	0.150	1987
MEAN	---	---	0.340	0.386	0.087	0.001	0.002	0.008	0.002	0.004	---	---	0.101	MEAN

LOCATION - LAT 49 03 40 N DRAINAGE AREA, 46.5 km^2
LONG 97 04 10 W NATURAL FLOW

MAIN DRAIN NEAR RIDGEVILLE - STATION NO. 05OD033

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	6.68B AT 18:51 CST ON APR 5 *	2.63B ON APR 6	0B ON MAR 1 *	2 440	1983
1984	3.03B AT 00:34 CST ON MAR 28	1.62B ON MAR 28	0B ON MAR 1	405	1984
1985	---	1.28E ON MAR 21	0B ON MAR 1	721	1985
1986	---	4.68B ON MAR 28 *	0B ON MAR 1	3 910	1986
1987	---	3.78B ON APR 4	0B ON MAR 1	3 180	1987
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 130	MEAN

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. OSRA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	3.88	3.98	4.25	5.87	12.1	8.82	4.87	2.73	2.30	2.43	1.81	1.56	4.62	1913
1914	1.38	1.13	1.13	2.26	5.19	9.76	12.0	3.94	2.71	5.77	3.39	2.55	4.37	1914
1915	1.42	1.42	1.42	13.3	23.0	14.4	7.29	3.85	3.51	6.14	10.2	5.10	7.81	1915
1916	2.83	2.83	2.83	19.0	37.6	33.3	29.2	25.0	22.7	---	---	---	---	1916
1919	---	---	---	---	---	17.9	29.9	19.0	10.8	13.5	14.7	---	---	1919
1921	---	---	---	---	---	31.3	22.5	15.0	4.86	---	---	---	---	1921
1980	---	---	3.83	24.6	41.4	18.7	4.81	1.30	0.956	1.45	1.67	1.30	---	1980
1981	1.31	1.84	2.11	14.5	32.7	14.1	4.37	1.26	0.294	0.184	0.111	0.115	8.07	1981
1982	0.103	0.118	0.887	4.04	23.3	30.4	15.0	35.7	35.7	12.3	8.95	8.89	14.7	1982
1983	6.11	3.48	3.34	20.8	37.7	32.8	14.9	9.71	6.83	3.00	2.33	1.68	11.8	1983
1984	1.11	1.86	1.86	8.18	57.9	24.4	12.0	8.80	8.61	9.86	8.78	5.89	12.3	1984
1985	3.72	2.30	2.48	11.0	40.8	31.2	13.1	5.72	4.44	8.04	6.86	5.88	11.2	1985
1986	5.38	4.89	4.33	12.1	28.2	20.7	14.1	8.89	4.77	3.38	3.14	3.64	9.28	1986
1987	4.58	4.85	4.69	14.2	42.2	24.1	9.87	6.83	3.32	1.86	1.61	1.18	8.83	1987
1988	0.861	0.835	1.03	3.54	13.2	21.3	20.0	12.5	19.2	16.2	12.3	8.60	10.7	1988
1989	6.50	5.10	4.61	14.3	21.9	14.6	13.0	9.88	7.89	9.76	9.08	6.80	10.3	1989
1970	5.26	3.79	3.39	8.08	26.6	35.9	16.2	6.83	3.89	2.47	4.81	9.20	10.5	1970
1971	6.38	4.17	3.19	16.4	27.3	11.4	6.74	2.55	2.16	2.18	2.44	2.17	7.44	1971
1972	2.29	2.71	2.63	13.6	30.6	9.17	3.87	2.18	1.61	1.44	1.75	2.32	6.20	1972
1973	2.56	2.51	2.50	8.33	17.5	10.5	8.03	6.41	7.23	13.6	17.8	11.9	9.20	1973
1974	7.77	6.41	4.41	16.2	74.0	46.1	5.11	1.88	2.43	3.69	4.26	3.87	14.9	1974
1975	3.71	3.87	3.32	8.92	21.0	14.4	8.56	5.88	5.57	4.88	3.78	2.92	7.11	1975
1976	2.79	2.57	2.72	12.5	19.0	9.39	5.52	3.02	2.86	2.88	2.80	2.21	5.83	1976
1977	1.82	1.79	1.84	1.88	1.46	1.87	3.07	3.47	13.7	17.6	10.2	7.23	5.47	1977
1978	5.89	4.84	3.89	10.1	25.8	24.3	26.1	10.8	7.06	5.16	4.20	3.24	10.9	1978
1979	2.82	2.52	2.88	14.7	48.5	42.8	12.8	4.76	3.23	2.82	2.84	2.42	11.9	1979
1980	3.40	2.45	2.53	5.98	8.23	6.27	3.47	2.73	3.23	4.80	8.07	4.53	4.40	1980
1981	3.35	2.75	2.82	3.57	3.07	4.82	4.45	7.48	10.3	7.76	6.88	3.81	5.05	1981
1982	3.65	2.20	2.37	7.18	16.9	17.8	15.0	13.0	5.87	4.71	4.26	3.75	8.02	1982
1983	3.02	2.96	2.93	4.80	6.76	13.0	13.9	5.71	3.14	2.83	2.57	2.39	5.34	1983
1984	2.07	2.01	2.28	4.84	7.18	16.8	20.0	8.22	3.99	5.30	12.4	10.6	8.14	1984
1985	6.56	4.80	3.72	9.17	30.5	15.7	6.85	10.0	7.04	7.20	8.74	7.83	9.85	1985
1986	5.25	3.83	3.60	28.5	38.9	14.6	5.92	3.20	2.70	2.34	1.82	1.88	9.19	1986
1987	1.46	2.21	3.14	7.95	11.0	7.24	3.86	2.89	2.16	2.08	1.93	1.64	3.87	1987
1988	1.41	1.38	1.28	3.24	3.86	2.55	1.87	1.58	1.57	1.41	1.48	1.37	1.91	1988
MEAN	3.38	2.92	2.80	10.7	25.3	16.7	11.4	7.73	5.52	5.67	5.54	4.31	8.32	MEAN

LOCATION - LAT 51 05 54 N DRAINAGE AREA, 1 630 km²
LONG 88 17 00 W NATURAL FLOW

MANIGOTAGAN RIVER NEAR MANIGOTAGAN - STATION NO. OSRA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1913	---	13.5 ON MAY 18	1.38 ON SEP 28	142 000	1913
1914	---	17.5 ON JUL 8	1.10 B ON FEB 21	138 000	1914
1915	---	31.4 ON APR 28	1.42 B ON JAN 1	240 000	1915
1916	---	38.6 ON MAY 4	2.83 B ON JAN 1	---	1916
1919	---	32.5 ON JUL 10	---	---	1919
1921	---	---	---	---	1921
1980	---	56.6 ON APR 21	0.510 ON AUG 18	---	1980
1981	---	49.6 ON APR 22	0.065 ON NOV 1 *	191 000	1981
1982	---	88.8 ON AUG 24	0.099 ON JAN 1	463 000	1982
1983	---	46.2 ON MAY 21	1.30 ON DEC 30	376 000	1983
1984	---	72.8 ON MAY 9	0.960 ON JAN 17	390 000	1984
1985	---	50.1 ON MAY 27	1.63 B ON MAR 10	353 000	1985
1986	---	37.4 ON MAY 18	2.80 ON NOV 14	293 000	1986
1987	47.5 AT 17:00 CST ON MAY 12	46.4 ON MAY 9	0.949 ON DEC 26	310 000	1987
1988	23.2 AT 20:00 CST ON JUN 11	23.1 ON JUN 12	0.532 ON FEB 21	340 000	1988
1989	33.1 AT 12:00 CST ON APR 16	32.3 ON APR 16	3.85 ON MAR 29	326 000	1989
1970	43.0 AT 17:00 CST ON JUN 8	42.5 ON JUN 8	2.12 ON OCT 23	332 000	1970
1971	53.5 AT 13:45 CST ON MAY 6	51.8 ON APR 20	1.71 ON AUG 19	236 000	1971
1972	41.1 AT 11:51 CST ON MAY 7	41.1 ON MAY 7	1.29 ON OCT 16	196 000	1972
1973	22.8 AT 08:53 CST ON NOV 1	22.7 ON NOV 1	2.05 ON MAR 9	280 000	1973
1974	104 AT 15:32 CST ON MAY 6 *	103 ON MAY 6 *	1.80 ON JUL 28	470 000	1974
1975	25.8 AT 19:56 CST ON MAY 15	25.3 ON MAY 16	2.38 B ON DEC 12	224 000	1975
1976	24.1 AT 21:28 CST ON MAY 9	23.8 ON MAY 9	1.88 ON DEC 26	178 000	1976
1977	37.4 AT 16:34 CST ON SEP 10	34.0 ON SEP 10	1.38 ON MAY 23	173 000	1977
1978	35.4 AT 18:51 CST ON MAY 17	34.8 ON MAY 17	2.87 B ON DEC 28	345 000	1978
1979	87.3 AT 17:49 CST ON MAY 31	86.3 ON JUN 1	2.22 ON DEC 30	378 000	1979
1980	11.5 AT 13:11 CST ON APR 21	11.4 ON APR 21	2.19 ON JAN 3	139 000	1980
1981	11.7 AT 15:37 CST ON SEP 6	11.3 ON SEP 12	2.22 ON MAY 20	159 000	1981
1982	22.1 AT 17:08 CST ON MAY 22	21.8 ON MAY 21	1.71 B ON FEB 27	253 000	1982
1983	22.4 AT 12:26 CST ON JUN 22	20.0 ON JUN 22	2.19 B ON DEC 26	168 000	1983
1984	32.8 AT 16:27 CST ON JUN 23	32.4 ON JUN 23	1.85 B ON JAN 10	257 000	1984
1985	36.7 AT 14:26 CST ON MAY 15	36.5 ON MAY 15	2.92 B ON MAR 3	311 000	1985
1986	47.0 AT 14:55 CST ON MAY 11	46.7 ON MAY 11	1.51 B ON NOV 30	290 000	1986
1987	12.9 AT 15:27 CST ON MAY 4	12.8 ON MAY 4	1.01 B ON JAN 27	125 000	1987
1988	5.60 AT 23:26 CST ON APR 10	5.41 ON APR 11	1.13 ON JAN 6	80 500	1988
				263 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNESS DRAIN NEAR SANFORD - STATION NO. 05OG010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.120	0.008	0.110	0.021	0.004	0	0	0	---	---	0.033	1981
1982	---	---	0.010	0.348	0	0	0	0	0	0	---	---	0.044	1982
1983	---	---	0.059	1.16	0.001	0.012	0.002	0	0	0	---	---	0.165	1983
1984	---	---	0.013	0.096	0.007	0.002	0.002	0	0	0	---	---	0.015	1984
1985	---	---	0.571	0.391	0.002	0	0	0.015	0	0.014	---	---	0.124	1985
1986	---	---	0.236	0.583	0.180	0	0.012	0.001	0	0	---	---	0.126	1986
1987	---	---	0.011	1.76	0	0	0	0	0	0	---	---	0.217	1987
MEAN	---	---	0.148	0.621	0.043	0.009	0.003	0.002	0	0.002	---	---	0.102	MEAN

LOCATION - LAT 49 37 14 N DRAINAGE AREA, 84.0 km²
LONG 97 22 32 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "MANNES DRAIN NEAR SANFORD"

MANNESS DRAIN NEAR SANFORD - STATION NO. 05OG010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	3.02 AT 02:43 CST ON MAY 23	1.94 R ON MAY 23	0S ON MAR 1 *	705	1981
1982	2.28 AT 06:35 CST ON APR 13	1.77 ON APR 13	0S ON MAR 1	926	1982
1983	5.39 AT 20:56 CST ON APR 6	5.84 ON APR 7	0S ON MAR 1	3 290	1983
1984	0.681 AT 18:48 CST ON APR 2	0.548 ON APR 2	0S ON MAR 1	313	1984
1985	4.63 B AT 02:42 CST ON MAR 25	3.63 B ON MAR 25	0S ON MAR 1	2 620	1985
1986	3.96 AT 18:35 CST ON MAR 30	3.28 ON APR 1	0S ON MAR 1	2 880	1986
1987	10.3 AT 04:29 CST ON APR 7 *	9.75 ON APR 7 *	0S ON MAR 1	4 590	1987
				2 180	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	0.843	0.600	0.214	0.283	0	0	0	0	---	---	0.230	1961
1962	---	---	0	3.75	1.80	0.490	0.116	0.085	0.101	0.031	---	---	0.784	1962
1963	---	---	1.03	0.880	0.211	3.01	0.189	0.704	0	0	---	---	0.923	1963
1964	---	---	0	2.84	---	---	---	---	---	---	---	---	---	1964
1965	---	---	0	5.02	1.04	0.561	0.066	0.001	0.023	0.151	---	---	0.858	1965
1966	---	---	0.097	8.75	4.04	0.888	5.57	0.447	3.22	0.071	---	---	2.97	1966
1967	---	---	0.800	18.4	2.12	0.085	0.030	0.009	0.014	0.017	---	---	2.78	1967
1968	---	---	0.092	0.782	1.58	0.181	0.839	1.08	0.858	0.081	---	---	0.656	1968
1969	---	---	0	7.24	0.923	0.336	0.466	0.410	0.080	0.080	---	---	1.17	1969
1970	---	---	0	10.4	5.14	1.20	0.161	0.042	0.180	0.096	---	---	2.14	1970
1971	---	---	0	6.34	0.188	0.047	0.072	0.103	0.131	0.247	---	---	0.872	1971
1972	---	---	0.804	4.04	0.070	0.086	0.134	0.282	0.157	0.144	---	---	0.718	1972
1973	---	---	3.19	0.134	0.070	0.092	0.028	0.040	0.888	0.353	---	---	0.801	1973
1974	---	---	0	18.5	9.86	0.881	0.013	0.011	0.023	0	---	---	3.59	1974
1975	---	---	0	0.830	0.133	1.95	2.19	0.019	0.020	0.043	---	---	0.645	1975
1976	---	---	0	2.06	0.018	2.03	0.040	0.025	0.054	0.008	---	---	0.519	1976
1977	---	---	0.134	0.357	0.064	0.017	0.122	0.026	0.338	0.120	---	---	0.148	1977
1978	---	---	0.197	4.92	0.487	0.047	0.084	0.001	0.043	0.084	---	---	1.21	1978
1979	---	---	0	8.52	1.28	0.887	0.040	0.081	0.052	0.133	---	---	1.47	1979
1980	---	---	0	2.84	0.041	0.034	0.052	0.024	0.164	0.181	---	---	0.383	1980
1981	---	---	0.417	0.156	0.227	0.216	0.083	0.188	0.133	0.263	---	---	0.209	1981
1982	---	---	0.313	2.92	0.132	1.80	0.393	0.263	0.153	0.281	---	---	0.784	1982
1983	---	---	4.04	4.63	0.171	0.254	0.465	0.034	0.164	0.136	---	---	1.23	1983
1984	---	---	0.881	0.486	0.115	1.22	0.237	0.045	0.091	0.181	---	---	0.377	1984
1985	---	---	1.80	0.393	0.092	0.098	0.188	0.853	0.098	0.163	---	---	0.461	1985
1986	---	---	3.75	2.76	5.13	0.104	0.095	0.081	0.072	0.143	---	---	1.53	1986
1987	---	---	0.153	2.70	0.188	0.102	0.087	0.072	0.030	0.173	---	---	0.429	1987
1988	---	---	0.135	1.08	0.082	0.013	0.057	0.011	0.048	0.120	---	---	0.193	1988
MEAN	---	---	0.670	4.86	1.30	0.814	0.473	0.183	0.285	0.120	---	---	1.02	MEAN

LOCATION - LAT 49 37 50 N DRAINAGE AREA, 494 km²
LONG 96 54 20 W NATURAL FLOW

MANNING CANAL NEAR ILE DES CHENES - STATION NO. 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---				
1962	---	11.8 B ON MAR 26	0B ON MAR 1 *	4 880	1961
1963	---	37.4 ON APR 20	0B ON MAR 1	16 300	1962
1964	---	12.3 ON JUN 5	0B ON MAR 1	15 300	1963
		17.0 ON MAY 4	0B ON MAR 1	---	1964
1965	---				
1966	---	20.8 B ON APR 14	0B ON MAR 1	16 100	1965
1967	---	23.7 ON JUL 4	0B ON MAR 1	62 800	1966
1968	---	59.2 ON APR 21	0B ON MAR 1	58 600	1967
1969	---	15.9 ON MAY 15	0J ON MAR 1	13 900	1968
		31.4 ON APR 10	0B ON MAR 1	24 800	1969
1970	---				
1971	---	40.6 ON APR 16	0B ON MAR 1	45 300	1970
1972	---	45.3 ON APR 8	0B ON MAR 1	18 400	1971
1973	---	11.0 ON APR 16	0B ON MAR 1	15 200	1972
1974	---	13.6 B ON MAR 13	0B ON MAR 1	12 700	1973
		74.2 ON MAY 21 *	0B ON MAR 1	76 000	1974
1975	---				
1976	---	44.7 ON JUN 30	0B ON MAR 1	13 600	1975
1977	---	24.2 ON JUN 13	0B ON MAR 1	11 000	1976
1978	---	1.65 ON SEP 27	0B ON MAR 1	3 150	1977
1979	84.0 B AT 16 01 CST ON APR 19 *	42.5 B ON APR 8	0B ON MAR 1	25 700	1978
		61.2 B ON APR 18	0B ON MAR 1	31 200	1979
1980	29.0 B AT 06 38 CST ON APR 5	20.5 B ON APR 6	0B ON MAR 1	8 110	1980
1981	3.94 AT 08 00 CST ON JUN 29	3.62 ON JUN 29	0 ON JUL 13	4 430	1981
1982	---	13.8 B ON APR 13	0B ON MAR 1	16 600	1982
1983	26.5 B AT 08 52 CST ON APR 7	19.6 B ON APR 6	0B ON MAR 1	25 900	1983
1984	8.39 AT 08 58 CST ON JUN 13	7.71 ON JUN 13	0B ON MAR 1	7 950	1984
1985	---				
1986	42.1 B AT 08 06 CST ON MAR 29	10.5 B ON MAR 24	0B ON MAR 1	9 780	1985
1987	22.4 B AT 20 15 CST ON APR 5	36.6 B ON MAR 28	0 ON AUG 29	32 300	1986
1988	---	17.5 B ON APR 5	0B ON MAR 1	9 080	1987
		6.858 ON APR 3	0B ON MAR 1	4 070	1988
				21 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1961	---	---	1.01	0.336	0.113	0.258	0	0	0	0	---	---	0.318	1961
1962	---	---	0	3.72	1.71	0.693	0.157	0.024	0.002	0	---	---	0.775	1962
1963	---	---	0.115	0.448	0.037	1.46	0.172	0.840	0	0	---	---	0.358	1963
1964	---	---	0	1.29	0.653	0.522	0.014	0.005	0.046	0.008	---	---	0.314	1964
1965	---	---	0	2.41	0.810	0.243	0.018	0.091	0.035	0.084	---	---	0.420	1965
1966	---	---	0.048	4.23	2.15	0.118	3.51	0.289	1.87	0.017	---	---	1.50	1966
1967	---	---	0.746	11.9	0.848	0.022	0.018	0	0.008	0.011	---	---	1.86	1967
1968	---	---	0.005	0.385	1.20	0.110	0.798	0.385	0.198	0.060	---	---	0.382	1968
1969	---	---	0	3.51	0.048	0.041	0.085	0.201	0.028	0.041	---	---	0.488	1969
1970	---	---	0	7.96	3.65	0.467	0.045	0.085	0.141	0.089	---	---	1.52	1970
1971	---	---	0	3.52	0.070	0.037	0.040	0.024	0.056	0.103	---	---	0.472	1971
1972	---	---	1.35	3.82	0.118	0.020	0.058	0.076	0.077	0.111	---	---	0.888	1972
1973	---	---	2.40	0.092	0.022	0.077	0.008	0.019	0.871	0.432	---	---	0.503	1973
1974	---	---	0	11.7	5.61	0.117	0	0.009	0.031	0.005	---	---	2.15	1974
1975	---	---	0	0.680	0.118	0.798	1.04	0.008	0.013	0.028	---	---	0.332	1975
1976	---	---	0	0.914	0.014	0.985	0.026	0.011	0.022	0.030	---	---	0.246	1976
1977	---	---	0.132	0.208	0.099	0.013	0.058	0.007	0.284	0.089	---	---	0.108	1977
MEAN	---	---	0.342	3.36	0.992	0.350	0.351	0.104	0.210	0.062	---	---	0.714	MEAN

LOCATION - LAT 49 38 10 N DRAINAGE AREA, 277 km^2
LONG 98 50 50 W NATURAL FLOW

MANNING CANAL NEAR NIVERVILLE - STATION NO. 05OE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---				
1962	---	6.958 ON MAR 25	0B ON MAR 1 *	4 550	1961
1963	---	25.5 E ON APR 18	0B ON MAR 1	16 400	1962
1964	---	4.73 ON AUG 4	0B ON MAR 1	7 540	1963
		4.28 ON MAY 6	0B ON MAR 1	6 840	1964
1965	---				
1966	---	12.8 B ON APR 14	0B ON MAR 1	8 880	1965
1967	---	15.0 ON JUL 4	0B ON MAR 1	31 700	1966
1968	---	47.8 ON APR 21 *	0B ON MAR 1	35 200	1967
1969	---	8.71 ON MAY 15	0B ON MAR 1	8 070	1968
		21.7 ON APR 10	0B ON MAR 1	10 300	1969
1970	---				
1971	---	26.5 ON APR 16	0B ON MAR 1	32 200	1970
1972	---	27.6 ON APR 8	0B ON MAR 1	8 990	1971
1973	---	9.008 ON APR 12	0B ON MAR 1	14 700	1972
1974	---	11.2 B ON MAR 13	0B ON MAR 1	10 700	1973
		46.7 ON MAY 21	0B ON MAR 1	45 800	1974
1975	---				
1976	---	13.6 ON JUN 30	0B ON MAR 1	7 020	1975
1977	---	12.3 ON JUN 13	0B ON MAR 1	5 200	1976
		1.44 ON SEP 27	0B ON MAR 1	2 280	1977
				15 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05DE008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	13.9	19.0	0.076	0.176	0.042	0.010	0.174	---	---	4.17	1969
1970	---	---	0	17.1	17.5	0.921	0.091	0.005	0.178	0.006	---	---	4.48	1970
MEAN	---	---	0	15.5	18.3	0.499	0.134	0.024	0.094	0.090	---	---	4.32	MEAN

LOCATION - LAT 49 31 50 N DRAINAGE AREA, 452 km²
LONG 97 08 30 W NATURAL FLOW

MARSH RIVER ABOVE CONFLUENCE WITH RAT RIVER - STATION NO. 05DE008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	52.4 ON MAY 1 *	0B ON MAR 1 *	88 400	1969
1970	---	44.2 ON MAY 1	0B ON MAR 1	94 400	1970
				91 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05DE010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	7.05	0.167	0.020	0.003	0	0	0	---	---	0.888	1971
1972	---	---	0.012	3.63	0.167	0.010	0.001	0.001	0.001	0.001	---	---	0.483	1972
1973	---	---	0.386	0.337	0.027	0.003	0	0	0.044	0	---	---	0.099	1973
1974	---	---	0	25.1	18.9	0.937	0.018	0	0	0	---	---	5.58	1974
1975	---	---	0	0.791	5.82	0.762	2.11	0.007	0	0	---	---	1.17	1975
1976	---	---	0	3.73	0.079	0.090	0.022	0	0	0	---	---	0.481	1976
1977	---	---	0	0.208	0.125	0.125	0.006	0	0.012	0.005	---	---	0.058	1977
1978	---	---	0.086	26.8	2.82	0	0.012	0	0	0	---	---	3.56	1978
1979	---	---	0	27.1	55.5	0.588	0.001	0.001	0	0.001	---	---	10.4	1979
1980	---	---	0	2.62	0.074	0.019	0.001	0.004	0.002	0.010	---	---	0.334	1980
1981	---	---	0.868	0.320	0.405	0.539	0.144	0.141	0.092	0.044	---	---	0.284	1981
1982	---	---	0.122	3.14	0.172	0.459	0.131	0.028	0	0	---	---	0.499	1982
1983	---	---	1.42	7.58	0.226	0	0	0	0	0	---	---	1.14	1983
1984	---	---	0.033	0.176	0.040	0.827	0.162	0.017	0	0	---	---	0.155	1984
1985	---	---	2.38	0.848	0.003	0	0	0.011	0.007	0.001	---	---	0.409	1985
1986	---	---	1.22	5.92	2.24	0.037	0	0	0	0	---	---	1.17	1986
1987	---	---	0	12.6	0.008	0	0	0	0	0	---	---	1.55	1987
1988	---	---	0	0.598	0.024	0	0	0	0	0	---	---	0.078	1988
MEAN	---	---	0.383	7.15	4.81	0.244	0.146	0.012	0.009	0.003	---	---	1.58	MEAN

LOCATION - LAT 49 30 00 N DRAINAGE AREA, 445 km²
LONG 97 09 20 W NATURAL FLOW

MARSH RIVER NEAR OTTERBURNE - STATION NO. 05DE010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	42.5 ON APR 11	0 B ON MAR 1 *	18 600	1971
1972	---	10.4 ON APR 18	0 B ON MAR 1	16 400	1972
1973	---	0.706 ON APR 8	0 B ON MAR 1	2 100	1973
1974	---	88.9 ON APR 21	0 B ON MAR 1	118 000	1974
1975	---	16.1 ON MAY 12	0 B ON MAR 1	24 800	1975
1976	---	15.7 ON APR 10	0 B ON MAR 1	10 200	1976
1977	---	0.7708 ON APR 14	0 B ON MAR 1	1 260	1977
1978	42.5 B AT 12:14 CST ON APR 23	42.2 B ON APR 23	0 B ON MAR 1	77 500	1978
1979	93.6 AT 21:14 CST ON MAY 8 *	93.0 ON MAY 8 *	0 B ON MAR 1	221 000	1979
1980	7.32 AT 08:30 CST ON APR 10	6.87 B ON APR 10	0 B ON MAR 1	7 070	1980
1981	4.48 AT 08:55 CST ON MAY 31	4.35 ON MAY 31	0.001 ON JUL 29	8 220	1981
1982	14.7 AT 09:45 CST ON APR 15	14.3 ON APR 15	0 B ON MAR 1	10 800	1982
1983	---	26.0 B ON APR 7	0 B ON MAR 1	24 000	1983
1984	3.35 AT 07:48 CST ON JUN 10	3.24 ON JUN 10	0 B ON MAR 1	3 270	1984
1985	12.4 AT 12:00 CST ON MAR 25	11.4 B ON MAR 25	0 B ON MAR 1	8 880	1985
1986	30.7 AT 14:00 CST ON APR 1	30.0 ON APR 1	0 B ON MAR 1	24 800	1986
1987	85.3 AT 18:14 CST ON APR 8	84.6 ON APR 8	0 B ON MAR 1	32 700	1987
1988	2.478 AT 11:21 CST ON APR 7	2.23 ON APR 8	0 B ON MAR 1	1 800	1988
				33 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.002	3.15	0.094	0.038	0.008	0.006	0.008	0.012	---	---	0.807	1960
1961	---	---	0.190	0.301	0.051	0.026	0.022	0.024	0.035	0.036	---	---	0.142	1961
1962	---	---	0	2.08	0.158	0.046	0.026	0.019	0.016	0.013	---	---	0.580	1962
1963	---	---	0.142	0.072	0.041	0.108	0.049	0.034	0.029	0.025	---	---	0.051	1963
1964	---	---	0.028	0.524	0.071	0.024	0.032	0.025	0.022	0.018	---	---	0.150	1964
1965	---	---	0	1.83	0.124	0.030	0.013	0.010	0.016	0.018	---	---	0.441	1965
1966	---	---	1.04	1.19	0.541	0.038	0.012	0.006	0.006	0.008	---	---	0.702	1966
1967	---	---	0.015	1.70	0.245	0.011	0.011	0	0	0	---	---	0.488	1967
1968	---	---	0.935	0.205	0.284	0.115	0.313	0.544	0.311	0.088	---	---	0.384	1968
1969	---	---	0.016	4.76	0.140	0.185	0.382	0.025	0.014	0.013	---	---	1.25	1969
1970	---	---	0	4.71	1.53	0.117	0.181	0.027	0.017	0.012	---	---	1.57	1970
1971	---	---	0	0.781	0.088	0.040	0.010	0.010	0.010	0.018	---	---	0.224	1971
1972	---	---	1.80	2.13	0.081	0.021	0.014	0.012	0.011	0.011	---	---	0.859	1972
1973	---	---	0.018	0.014	0.018	0.021	0.020	0.014	0.008	0.008	---	---	0.018	1973
1974	---	---	0.002	4.35	1.83	0.078	0.010	0.008	0.003	0.004	---	---	1.58	1974
1975	---	---	0	0.681	0.197	0.077	0.081	0.009	0.004	0.003	---	---	0.238	1975
1976	---	---	0.002	3.16	0.068	0.015	0.003	0.001	0	0	---	---	0.805	1976
1977	---	---	0	0	0.050	0.114	0.020	0	0.088	0.043	---	---	0.042	1977
1978	---	---	0.026	1.77	0.138	0.026	---	---	---	---	---	---	0.487	1978
1979	---	---	0.001	2.08	0.815	0.343	---	---	---	---	---	---	0.829	1979
1980	---	---	0.001	0.375	0.091	0.048	---	---	---	---	---	---	0.128	1980
1981	---	---	0.087	0.025	0.021	0.009	---	---	---	---	---	---	0.036	1981
1982	---	---	0.023	0.515	0.024	0.028	---	---	---	---	---	---	0.146	1982
MEAN	---	---	0.180	1.57	0.301	0.067	0.072	0.085	0.032	0.017	---	---	0.526	MEAN

LOCATION - LAT 49 14 21 N
LONG 98 40 28 W

DRAINAGE AREA, 138 km²
REGULATED

MARY JANE CREEK AT LA RIVIERE - STATION NO. 05OB013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	13.6 ON APR 12	0 B ON MAR 1 *	8 520	1960
1961	---	1.20 B ON MAR 29	0.017 ON JUN 25	1 490	1961
1962	---	11.2 ON APR 18	0 B ON MAR 1	5 910	1962
1963	---	0.8548 ON MAR 25	0 B ON MAR 1	555	1963
1964	---	3.57 ON APR 11	0.008 ON JUN 9	1 880	1964
1965	---	8.55 B ON APR 12	0 B ON MAR 1	4 640	1965
1966	---	3.77 B ON MAR 30	0 B ON MAR 1	7 850	1966
1967	---	10.7 R ON APR 21	0 B ON MAR 1	5 140	1967
1968	---	3.71 ON MAR 27	0 B ON MAR 1	4 050	1968
1969	---	32.0 ON APR 10 *	0.0148 ON MAR 1	13 200	1969
1970	---	27.8 ON APR 25	0 B ON MAR 1	15 800	1970
1971	---	3.08 ON APR 19	0 B ON MAR 1	2 380	1971
1972	---	3.62 B ON MAR 21	0 B ON MAR 1	10 100	1972
1973	---	0.061 ON MAR 24	0 B ON MAR 1	183	1973
1974	---	21.0 ON APR 17	0.0028 ON MAR 1	15 700	1974
1975	---	1.94 B ON APR 13	0 B ON MAR 1	2 520	1975
1976	---	14.5 ON APR 7	0.0028 ON MAR 1	5 490	1976
1977	---	0.351 ON JUN 20	0 B ON MAR 1	439	1977
1978	---	5.75 ON APR 6	0.0058 ON MAR 1	5 130	1978
1979	---	12.0 E ON APR 22	0 B ON APR 11	8 740	1979
1980	---	1.82 ON APR 7	R ON MAR 31	1 350	1980
1981	---	0.2318 ON MAR 18	0 B ON MAR 1	378	1981
1982	1.688 AT 12:00 CST ON APR 13 *	1.44 B ON APR 13	R B ON MAR 1	1 640	1982
				5 550	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0	0.383	0.678	0.180	0.069	0.022	0.052	0.391	---	---	0.222	1959
1960	---	---	0	1.28	1.04	0.303	0.032	0.058	0.030	0.088	---	---	0.382	1960
1961	---	---	0.017	0.315	0.438	0.034	0.002	0	0	0.008	---	---	0.102	1961
1962	---	---	0	0.385	0.498	0.349	0.078	0.037	0.028	0.042	---	---	0.177	1962
1963	---	---	0.315	2.05	0.822	0.825	0.087	0.041	0.087	0.047	---	---	0.802	1963
1964	---	---	0	0.774	0.342	0.074	0.038	0.014	0.017	0.021	---	---	0.159	1964
1965	---	---	0.014	0.549	1.18	0.403	0.133	0.073	0.709	0.192	---	---	0.405	1965
1966	---	---	0.262	0.822	0.710	0.148	0.071	0.098	0.038	0.083	---	---	0.275	1966
1967	---	---	0.028	0.845	1.45	0.158	0.073	0.026	0.001	0.073	---	---	0.333	1967
1968	---	---	0.086	0.381	0.385	0.222	0.224	0.209	0.140	0.102	---	---	0.218	1968
1969	---	---	0	1.43	0.386	0.835	0.565	0.097	0.126	0.151	---	---	0.445	1969
1970	---	---	0.037	0.848	2.64	0.651	0.267	0.069	0.115	0.173	---	---	0.589	1970
1971	---	---	0	1.10	0.341	1.61	0.352	0.088	0.086	0.508	---	---	0.505	1971
1972	---	---	0.058	1.02	0.848	0.193	0.076	0.054	0.030	0.041	---	---	0.288	1972
1973	---	---	0.092	0.282	0.312	0.443	0.086	0.110	0.235	0.301	---	---	0.228	1973
1974	---	---	0	1.88	2.32	0.502	0.148	0.078	0.078	0.088	---	---	0.610	1974
1975	---	---	0	0.708	1.01	1.04	0.137	0.877	3.11	0.859	---	---	0.872	1975
1976	---	---	0.001	3.41	0.618	0.598	0.120	0.052	0.038	0.045	---	---	0.589	1976
1977	---	---	0.008	0.186	0.212	0.093	0.414	0.063	0.376	0.153	---	---	0.188	1977
1978	---	---	0.008	0.885	0.337	0.128	0.061	0.025	0.080	0.084	---	---	0.209	1978
1979	---	---	0.003	0.813	2.13	0.403	0.082	0.051	0.044	0.053	---	---	0.448	1979
1980	---	---	0.001	0.524	0.098	0.029	0.021	0.068	0.091	0.171	---	---	0.124	1980
1981	---	---	0.148	0.239	0.342	0.518	0.089	0.056	0.044	0.075	---	---	0.189	1981
1982	---	---	0.010	1.47	0.546	0.176	0.083	0.034	0.072	0.134	---	---	0.309	1982
1983	---	---	0	1.16	0.803	0.545	0.670	0.072	0.095	0.074	---	---	0.441	1983
1984	---	---	0.062	0.280	0.517	0.540	0.163	0.002	0.118	0.316	---	---	0.249	1984
1985	---	---	0.138	1.24	0.286	0.591	0.237	0.383	0.248	0.348	---	---	0.431	1985
1986	---	---	0.272	1.35	2.23	0.302	0.321	0.105	0.061	0.105	---	---	0.593	1986
1987	---	---	0.421	0.951	0.158	0.070	0.032	0.031	0.023	0.055	---	---	0.216	1987
1988	---	---	0.010	0.428	0.448	0.014	0.001	0.001	0.004	0.058	---	---	0.120	1988
MEAN	---	---	0.065	0.928	0.784	0.400	0.157	0.087	0.205	0.185	---	---	0.350	MEAN

LOCATION - LAT 50 48 00 N
LONG 99 28 48 W

DRAINAGE AREA, 78.2 km²
NATURAL FLOW

MCKINNON CREEK NEAR MCCREARY - STATION NO. 05LJ027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	5.38 AT 21:30 CST ON MAY 3	2.61 ON MAY 4	0 B ON MAR 1 *	4 710	1959
1960	5.18 AT 19:45 CST ON MAY 26	3.74 ON APR 21	0 B ON MAR 1	7 450	1960
1961	---	1.24 ON APR 30	0 B ON MAR 1	2 150	1961
1962	4.02 AT 07:10 CST ON MAY 30	3.45 ON MAY 30	0 B ON MAR 1	3 750	1962
1963	11.3 AT 19:00 CST ON APR 16	8.46 ON JUN 10	0 B ON MAR 1	10 800	1963
1964	5.698 AT 02:10 CST ON APR 25	4.368 ON APR 25	0 B ON MAR 1	3 380	1964
1965	8.01 AT 01:00 CST ON APR 30	5.07 ON APR 30	0.0148 ON MAR 1	8 580	1965
1966	---	3.88 ON MAY 5	0.0118 ON MAR 1	5 830	1966
1967	---	3.03 ON MAY 7	0 ON AUG 27	7 040	1967
1968	3.31 AT 00:30 CST ON APR 21	2.13 ON APR 21	0 B ON MAR 1	4 570	1968
1969	9.83 AT 06:35 CST ON JUN 27	7.598 ON APR 13	0 B ON MAR 1	9 400	1969
1970	8.51 AT 01:42 CST ON MAY 8	8.43 ON MAY 7	0.034 ON SEP 10	12 500	1970
1971	12.0 AT 13:29 CST ON JUN 6	9.34 ON JUN 6	0 B ON MAR 1	10 700	1971
1972	---	3.658 ON APR 25	0 B ON MAR 1	8 120	1972
1973	4.84 AT 20:40 CST ON JUN 20	2.88 ON JUN 20	0.011 ON JUL 23	4 850	1973
1974	8.52 AT 01:26 CST ON MAY 12	8.71 ON APR 27	0 B ON MAR 1	12 900	1974
1975	28.7 AT 10:07 CST ON SEP 19 *	28.6 ON SEP 19 *	0 B ON MAR 1	20 800	1975
1976	---	8.388 ON APR 6	0 B ON MAR 1	12 600	1976
1977	10.6 AT 00:52 CST ON JUL 12	4.81 ON JUL 12	0 B ON MAR 1	3 880	1977
1978	3.88 AT 00:06 CST ON APR 28	3.00 ON APR 24	0 B ON MAR 1	4 420	1978
1979	8.85 AT 06:01 CST ON MAY 17	7.27 ON MAY 17	0.0038 ON MAR 1	9 480	1979
1980	2.01 AT 01:33 CST ON APR 19	1.35 ON APR 19	0 ON JUN 26	2 840	1980
1981	2.08 AT 20:30 CST ON JUN 15	1.38 ON JUN 16	0 B ON MAR 1	4 010	1981
1982	7.788 AT 22:17 CST ON APR 22	4.44 ON APR 23	0 B ON MAR 1	8 550	1982
1983	8.848 AT 23:43 CST ON APR 24	5.388 ON APR 24	0 B ON MAR 1	9 330	1983
1984	6.96 AT 13:01 CST ON JUN 23	5.09 ON JUN 23	0 B ON MAR 1	9 270	1984
1985	3.968 AT 15:46 CST ON APR 20	2.618 ON APR 21	0 B ON MAR 1	9 120	1985
1986	20.4 AT 03:48 CST ON MAY 6	15.6 ON MAY 6	0 B ON MAR 1	12 800	1986
1987	3.268 AT 00:53 CST ON APR 6	2.928 ON APR 6	0.001 ON SEP 8	4 670	1987
1988	2.788 AT 06:56 CST ON APR 17	1.92 ON MAY 3	0 B ON MAR 1	2 540	1988
				7 400	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.378	0.125	0.078	0.071	0.020	0	0	0	---	---	0.084	1966
1967	---	---	0.002	0.220	0.088	0	0	0	0	0	---	---	0.040	1967
1968	---	---	0.023	0.007	0	0	0	0.135	0.237	0.028	---	---	0.054	1968
1969	---	---	0	2.98	0.415	0.115	0.170	0.024	0	0	---	---	0.457	1969
1970	---	---	0	1.38	0.520	0.010	0.001	0	0	0	---	---	0.234	1970
1971	---	---	0	0.183	0.007	0.385	0.388	0	0	0.003	---	---	0.117	1971
1972	---	---	0.873	0.214	0.038	0.138	0.084	0.020	0.022	0.001	---	---	0.187	1972
1973	---	---	0.015	0.005	0.013	0.004	0.001	0	0	0	---	---	0.005	1973
1974	---	---	0	2.94	0.708	0.098	0.009	0	0	0	---	---	0.462	1974
1975	---	---	0	3.84	1.10	0.144	0.026	0.123	0.087	0.208	---	---	0.859	1975
1976	---	---	0	8.80	0.328	0.178	0.011	0	0	0	---	---	1.14	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.377	0.008	0.003	0	0	0	0	---	---	0.048	1978
1979	---	---	0	1.05	0.138	0.008	0	0	0	0	---	---	0.147	1979
1980	---	---	0	0.008	0.002	0	0	0	0	0	---	---	0.001	1980
1981	---	0.082	0.048	0	0	0	0	0	0	0	---	---	0.008	1981
1982	---	---	0	1.85	0.001	0.008	0	0	0	0	---	---	0.228	1982
1983	---	---	0.282	1.18	0.004	0	0	0	0	0	---	---	0.180	1983
1984	---	---	0.072	0.003	0.072	0.012	0	0	0	0	---	---	0.020	1984
1985	---	---	2.76	0.387	0.005	0.202	0.088	0	0	0.004	---	---	0.434	1985
1986	---	---	0.448	0.128	0.122	0.001	0	0	0	0	---	---	0.088	1986
1987	---	---	1.48	0.231	0.001	0	0	0.158	0.003	0.001	---	---	0.238	1987
1988	---	---	0.006	0.035	0	0	0	0	0	0	---	---	0.005	1988
MEAN	---	0.082	0.282	1.12	0.159	0.059	0.035	0.020	0.018	0.011	---	---	0.210	MEAN

LOCATION - LAT 49 19 30 N DRAINAGE AREA, 435 km²
LONG 100 42 10 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.510 AND 0 m³/s OCCURRED IN FEB

MEDORA CREEK NEAR NAPINKA - STATION NO. 05NG020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1966	---	1.70 E ON MAR 16	0E ON MAR 1 *	1 780	1966
1967	---	0.887 ON APR 8	0E ON MAR 1	840	1967
1968	---	0.898 ON AUG 26	0E ON MAR 1	1 140	1968
1969	---	16.3 ON APR 10	0E ON MAR 1	9 690	1969
1970	---	3.98 ON APR 8	0E ON MAR 1	4 880	1970
1971	---	1.43 ON JUN 23	0E ON MAR 1	2 460	1971
1972	---	4.30 ON MAR 21	0E ON MAR 1	3 880	1972
1973	---	0.065E ON MAR 22	0E ON MAR 1	101	1973
1974	---	8.75 E ON APR 18	0E ON MAR 1	9 790	1974
1975	---	12.7 ON APR 14	0E ON MAR 1	13 800	1975
1976	---	40.2 E ON APR 4 *	0E ON MAR 1	24 200	1976
1977	---	0 E ON MAR 1	0E ON MAR 1	0	1977
1978	---	2.92 E ON APR 8	0E ON MAR 1	1 010	1978
1979	---	12.3 ON APR 21	0E ON MAR 1	3 120	1979
1980	0.055 AT 06:16 CST ON APR 8	0.053 ON APR 18	0E ON MAR 1	28.4	1980
1981	---	0.333E ON MAR 1	0 ON MAR 25	128	1981
1982	14.2 AT 11:01 CST ON APR 14	11.5 ON APR 14	0E ON MAR 1	4 820	1982
1983	7.77 E AT 13:05 CST ON APR 2	5.52 E ON APR 4	0E ON MAR 1	3 810	1983
1984	1.33 AT 13:02 CST ON MAY 5	0.655E ON MAR 25	0E ON MAR 1	[illegible]	1984
1985	12.0 E AT 08:41 CST ON MAR 19	10.5 E ON MAR 22	0E ON MAR 1	9 187	1985
1986	2.53 E AT 12:14 CST ON MAR 18	2.14 E ON MAR 18	0E ON MAR 1	1 660	1986
1987	14.8 AT 02:45 CST ON MAR 23 *	12.7 ON MAR 23	0E ON MAR 1	4 980	1987
1988	0.331 AT 10:51 CST ON APR 4	0.295 ON APR 4	0E ON MAR 1	105	1988
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		4 460	MEAN

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	822	849	934	---	---	1 260	---	---	1 030	---	---	---	---	1971
1972	725	714	784	863	1 170	1 250	1 180	1 110	1 010	942	844	887	940	1972
1973	814	830	830	726	848	1 260	1 400	1 380	1 240	1 110	---	---	---	1973
MEAN	720	784	789	805	1 030	1 260	1 290	1 350	1 080	1 030	844	887	940	MEAN

LOCATION - LAT 64 33 10 N
LONG 88 08 00 W NATURAL FLOW

METCHANAIS CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1971	1 300 AT 17:18 CST ON MAY 28	1 300 ON JUN 12	---	---	1971
1972	1 310 AT 12:31 CST ON MAY 30	1 290 ON MAY 21	6288 ON DEC 31 *	29 700 000	1972
1973	1 470 AT 17:01 CST ON JUL 11 *	1 450 ON JUL 12 *	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		29 700 000	MEAN

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	1.98	3.10	0.885	0.101	1.18	0.852	0.474	---	---	1954
1955	---	---	---	3.80	1.27	0.721	0.068	0	0.020	0.060	---	---	---	1955
1956	---	---	0.044	1.50	1.98	0.416	0.278	0.041	0.130	0.119	---	---	0.583	1956
1957	---	---	0.078	2.02	0.532	0.184	0.048	0.080	0.081	0.071	---	---	0.377	1957
1958	---	---	0.079	0.585	0.167	0.095	0.081	0.038	0.085	0.072	---	---	0.150	1958
1959	---	---	0.206	0.849	0.378	0.581	0.185	0.042	0.088	0.186	---	---	0.278	1959
1960	---	---	0	2.62	1.07	0.438	0.057	0.029	0.028	0.078	---	---	0.533	1960
1961	---	---	0.005	0.073	0.147	0.051	0.014	0	0.100	0.088	---	---	0.081	1961
1962	---	---	0.011	0.267	0.092	0.072	0.042	0.032	0.038	0.043	---	---	0.074	1962
1963	---	---	0.132	0.539	0.345	0.317	0.153	0.021	0.029	0.044	---	---	0.198	1963
1964	---	---	0.025	0.583	0.363	0.036	0.011	0.021	0.024	0.055	---	---	0.139	1964
1965	---	---	0	0.889	0.520	0.238	0.238	0.301	0.387	0.207	---	---	0.316	1965
1966	---	---	0.387	2.09	0.759	0.454	0.205	0.062	0.030	0.043	---	---	0.497	1966
1967	---	---	0	0.591	1.22	0.120	0.022	0.018	0.004	0.033	---	---	0.251	1967
1968	---	---	0.145	0.356	0.118	0.050	0.027	0.037	0.031	0.042	---	---	0.100	1968
1969	---	---	0.009	0.631	0.235	0.188	0.488	0.105	0.029	0.147	---	---	0.225	1969
1970	---	---	0.028	1.32	1.77	0.618	0.468	0.087	0.045	0.126	---	---	0.557	1970
1971	---	---	0.085	1.51	0.250	0.500	0.090	0.025	0.028	0.093	---	---	0.315	1971
1972	---	---	0.041	1.39	0.625	0.058	0.027	0.018	0.011	0.035	---	---	0.273	1972
1973	---	---	0.083	0.153	0.139	0.251	0.052	0.014	0.098	0.118	---	---	0.114	1973
1974	---	---	0	2.45	2.81	0.451	0.017	0.015	0.057	0.078	---	---	0.733	1974
1975	---	---	0	1.58	1.04	1.08	0.034	0.082	0.429	0.258	---	---	0.542	1975
1976	---	---	0.004	2.36	0.305	4.27	0.109	0.018	0.011	0.025	---	---	0.885	1976
1977	---	---	0.017	0.178	0.239	0.074	0.112	0.048	0.302	0.182	---	---	0.145	1977
1978	---	---	0.032	0.877	0.253	0.129	0.016	0.018	0.048	0.067	---	---	0.183	1978
1979	---	---	0.029	2.29	1.84	0.388	0.008	0.001	0.024	0.052	---	---	0.570	1979
1980	---	---	0.024	0.545	0.051	0.023	0.018	0.048	0.048	0.055	---	---	0.100	1980
1981	---	---	0.075	0.174	0.123	0.142	0.134	0.019	0.033	0.089	---	---	0.088	1981
1982	---	---	0.029	0.517	0.135	0.055	0.107	0.035	0.018	0.108	---	---	0.125	1982
1983	---	---	0	1.48	0.976	0.805	0.294	0.010	0.008	0.082	---	---	0.451	1983
1984	---	---	0.141	0.281	0.700	1.32	0.026	0	0.015	0.181	---	---	0.328	1984
1985	---	---	0.083	2.00	0.163	0.371	0.074	0.479	0.176	0.136	---	---	0.428	1985
1986	---	---	0.824	2.00	2.86	0.121	0.207	0.113	0.099	0.132	---	---	0.806	1986
1987	---	---	0.073	2.36	0.120	0.034	0.080	0.023	0.196	0.089	---	---	0.387	1987
1988	---	---	0.053	2.14	2.78	0.108	0.032	0.048	0.011	0.043	---	---	0.581	1988
MEAN	---	---	0.085	1.25	0.809	0.611	0.133	0.057	0.111	0.105	0.474	---	0.348	MEAN

LOCATION - LAT 51 25 00 N
LONG 100 21 10 W
DRAINAGE AREA, 144 km²
NATURAL FLOW

REMARKS - PUBLISHED AS "MINK RIVER" PRIOR TO 1979

MINK CREEK NEAR ETHELBERT - STATION NO. 05LJ019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	---	---	---	1954
1955	---	17.8 ON APR 5	0 ON JUN 29 *	---	1955
1956	---	7.82 B ON APR 30	0 B ON MAR 1	11 800	1956
1957	---	6.81 ON APR 25	0 ON JUL 29	7 960	1957
1958	---	1.10 ON APR 14	0 B ON MAR 1	3 190	1958
1959	2.01 AT 17:00 CST ON JUN 29	1.95 ON JUN 28	0 B ON MAR 1	5 900	1959
1960	13.5 B AT 00:00 CST ON APR 13	11.8 B ON APR 12	0 B ON MAR 1	11 300	1960
1961	---	0.249A ON SEP 5	0 B ON MAR 1	1 290	1961
1962	---	1.33 B ON APR 19	0 B ON MAR 1	1 570	1962
1963	---	1.42 ON APR 10	0 B ON MAR 1	4 180	1963
1964	---	1.46 B ON APR 24	0 A ON JUL 19	2 940	1964
1965	---	1.76 B ON APR 13	0 B ON MAR 1	8 700	1965
1966	---	12.5 B ON APR 2	0.023 ON SEP 8	10 800	1966
1967	---	3.77 B ON APR 26	0 B ON MAR 1	5 310	1967
1968	---	0.850B ON MAR 29	0.011 ON AUG 14	2 120	1968
1969	---	3.31 B ON APR 15	0.008B ON MAR 1	4 780	1969
1970	8.72 B AT 00:00 CST ON APR 26	4.46 B ON APR 25	0.012 ON AUG 26	11 800	1970
1971	8.67 B AT 01:24 CST ON APR 11	8.60 B ON APR 11	0 ON SEP 1	8 680	1971
1972	---	5.13 B ON APR 18	0 ON AUG 26	5 770	1972
1973	2.51 AT 14:12 CST ON AUG 10	0.786 ON JUN 21	0 ON AUG 26	2 410	1973
1974	---	15.7 B ON APR 19	0 B ON MAR 1	15 800	1974
1975	---	5.95 B ON APR 20	0 B ON MAR 1	11 700	1975
1976	44.2 AT 23:19 CST ON JUN 13 *	32.3 ON JUN 14 *	0.0035 ON MAR 1	18 700	1976
1977	0.868 AT 18:56 CST ON SEP 27	0.932 ON SEP 27	0.013 ON AUG 30	3 080	1977
1978	---	1.41 ON APR 21	0 ON JUL 10	3 240	1978
1979	17.3 AT 00:00 CST ON APR 24	13.9 B ON APR 23	0 ON JUL 9	12 100	1979
1980	3.30 AT 11:13 CST ON OCT 26	1.67 B ON APR 8	0 ON JUN 17	2 110	1980
1981	0.891 AT 09:26 CST ON JUL 2	0.788 ON JUL 3	0 ON AUG 16	2 030	1981
1982	---	1.73 B ON APR 16	0 B ON MAR 1	2 640	1982
1983	---	8.31 B ON APR 24	0 B ON MAR 1	8 540	1983
1984	7.88 AT 20:12 CST ON JUN 24	7.27 ON JUN 24	0 B ON MAR 1	8 950	1984
1985	---	5.83 B ON APR 2	0 B ON MAR 1	8 070	1985
1986	10.6 AT 18:23 CST ON MAY 7	9.95 ON MAY 7	0 B ON MAR 1	17 100	1986
1987	11.8 AT 20:18 CST ON APR 6	9.55 B ON APR 6	0 ON JUN 15	7 780	1987
1988	18.6 AT 07:33 CST ON MAY 3	15.2 ON MAY 3	0 ON JUL 23	13 800	1988
				7 320	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.08	0.021	0	0	0.001	0	0	---	---	0.138	1980
1981	---	---	0.052	0.042	0.024	0.548	0.217	0.004	0.001	0.002	---	---	0.110	1981
1982	---	---	0.074	0.812	0.104	0.010	0.052	0.008	0.001	0.050	---	---	0.137	1982
MEAN	---	---	0.042	0.645	0.050	0.186	0.090	0.004	0.001	0.017	---	---	0.127	MEAN

LOCATION - LAT 51 25 55 N LONG 100 01 00 W
DRAINAGE AREA, 289 km²
NATURAL FLOW

MINK CREEK NEAR SIFTON - STATION NO. 05LJ048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.10A ON APR 10 *	0B ON MAR 1 *	2 880	1980
1981	4.51 AT 07:30 CST ON JUN 24 *	3.94 ON JUN 24	0 ON SEP 9	2 330	1981
1982	---	2.88B ON APR 15	0B ON MAR 1	2 910	1982
				2 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0.020	0.146	0	0	---	---	---	---	---	---	0.041	1978
1979	---	---	0	0.981	1.15	0.234	---	---	---	---	---	---	0.592	1979
1980	---	---	0	0.084	0	0	---	---	---	---	---	---	0.021	1980
1981	---	0.007	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0.017	0.387	0	0	---	---	---	---	---	---	0.100	1982
1983	---	---	0	0.851	0.250	0.026	---	---	---	---	---	---	0.240	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0.022	0.578	0.002	0	---	---	---	---	---	---	0.148	1985
1986	---	---	0.578	2.11	0.885	0.088	---	---	---	---	---	---	0.657	1986
1987	---	---	0.008	1.09	0.243	0.015	---	---	---	---	---	---	0.336	1987
1988	---	---	0	0.085	0.080	0.004	0	---	---	---	---	---	0.037	1988
MEAN	---	0.007	0.054	0.509	0.203	0.028	0	0	0	0	---	---	0.198	MEAN

LOCATION - LAT 50 18 30 N LONG 101 00 55 W
DRAINAGE AREA, 382 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.025 AND 0 m^3/s OCCURRED IN FEBRUARY

MINNEWASTA CREEK NEAR BEULAH - STATION NO. 05ME005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	0 E ON MAR 1	0B ON MAR 1 *	0	1977
1978	0.7028 AT 17:34 CST ON APR 10	0.467B ON APR 10	0B ON MAR 1	431	1978
1979	6.28 AT 07:35 CST ON APR 22	5.84 ON APR 22 *	0B ON MAR 1	6 240	1979
1980	0.437B AT 23:45 CST ON APR 9	0.352B ON APR 9	0B ON MAR 1	218	1980
1981	---	0 E ON MAR 1	0B ON MAR 1	0	1981
1982	---	1.29 ON APR 15	0B ON MAR 1	1 080	1982
1983	2.84 AT 01:00 CST ON APR 22	2.76 ON APR 22	0B ON MAR 1	2 540	1983
1984	---	0.001A ON MAR 28	0B ON MAR 1	0.09	1984
1985	2.85 AT 23:15 CST ON APR 2	1.39 ON APR 3	0B ON MAR 1	1 580	1985
1986	6.34 B AT 08:47 CST ON APR 1 *	5.60 B ON APR 1	0B ON MAR 1	8 030	1986
1987	5.62 AT 20:44 CST ON APR 6	5.04 ON APR 6	0B ON MAR 1	3 540	1987
1988	---	0.590E ON APR 5	0B ON MAR 1	383	1988
				2 080	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	-10.1	-40.2	-5.84	22.0	32.8	44.8	---	1971
1972	44.5	52.7	54.7	53.8	-8.39	-1.88	-46.2	-44.7	-7.22	23.0	36.8	---	---	1972
1973	50.2	57.3	58.3	58.0	12.4	-41.4	-38.8	4.04	-15.0	-28.8	17.4	37.3	14.0	1973
MEAN	47.4	55.0	56.5	56.3	2.01	-21.8	-31.4	-27.0	-9.35	5.13	29.0	41.1	14.0	MEAN

LOCATION - LAT 53 38 00 N LONG 100 19 00 W
DRAINAGE AREA, 9 170 km²
REGULATED SINCE 1964

MOOSE RIVER NEAR MOOSE LAKE - STATION NO. 05KK007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	83.7 ON APR 5 *	9.88 ON NOV 13 *	443 000	1973
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		443 000	MEAN

MORRIS RIVER AT ROSENORT - STATION NO. 05DF002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1922	---	---	---	---	3.98	---	---	---	---	---	---	---	---	1922
1923	---	---	---	---	8.15	---	---	---	---	---	---	---	---	1923
1925	---	---	---	---	1.26	---	---	---	---	---	---	---	---	1925
1963	---	---	0.005	3.24	1.98	13.1	1.81	0.588	0	0	---	---	2.53	1963
1964	---	---	0	8.36	1.05	1.44	0.213	0.155	2.09	0	---	---	1.63	1964
1965	---	---	0	33.3	3.63	1.47	0	0	0	0	---	---	4.71	1965
1966	---	---	0.411	3.09	1.94	0.519	2.01	10.7	4.63	0.527	---	---	2.98	1966
MEAN	---	---	0.104	12.0	3.14	4.13	0.956	2.86	1.86	0.157	---	---	2.98	MEAN

LOCATION - LAT 49 27 30 N LONG 97 26 15 W
DRAINAGE AREA, 2 240 km^2
NATURAL FLOW

MORRIS RIVER AT ROSENORT - STATION NO. 05DF002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1922	---	---	---	---	1922
1923	---	---	---	---	1923
1925	---	---	---	---	1925
1963	---	58.9 ON JUN 7	0E ON MAR 1 *	53 500	1963
1964	---	41.9E ON APR 15	0E ON MAR 1	34 600	1964
1965	---	122 ON APR 16 *	0E ON MAR 1	98 800	1965
1966	---	50.1E ON AUG 28	0E ON MAR 1	63 100	1966
				62 800	MEAN

E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MORRIS RIVER NEAR ROSENORT - STATION NO. 05DF020

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	32.0	6.12	2.95	12.6	1.83	0.480	0.107	---	---	7.20	1969
1970	---	---	0	40.7	38.5	2.39	---	---	---	---	---	---	---	1970
1971	---	---	0	26.9	2.38	1.84	1.28	0.473	0.313	0.845	---	---	4.05	1971
1972	---	---	3.16	21.6	2.37	0.387	0.043	0.085	0.048	0.239	---	---	3.44	1972
1973	---	---	1.86	1.21	0.834	1.11	0.214	0.158	0.034	0.088	---	---	0.683	1973
1974	---	---	0.051	57.9	39.6	2.84	0.340	0.040	0.050	0.080	---	---	12.5	1974
1975	---	---	0.133	6.15	3.54	2.81	1.81	0.233	0.239	0.213	---	---	1.88	1975
1976	---	---	0.084	23.4	1.23	0.885	0.017	0.001	0.001	0.013	---	---	3.12	1976
1977	---	---	0.002	1.41	1.55	0.142	0.184	0.020	0.483	0.430	---	---	0.528	1977
1978	---	---	0.048	23.5	3.27	1.18	2.52	1.07	0.416	0.188	---	---	3.87	1978
1979	---	---	0	---	---	3.18	0.558	0.115	0.353	0.081	---	---	---	1979
1980	---	---	0.003	5.41	0.387	0.017	0.001	0	0.022	0.042	---	---	0.842	1980
1981	---	---	1.48	0.846	0.280	0.335	0.504	0.324	0.810	0.184	---	---	0.883	1981
1982	---	---	0.233	4.80	0.609	0.304	0.054	0.008	0	0.025	---	---	0.743	1982
1983	---	---	0.824	21.3	0.980	0.628	0.303	0.049	0.002	0.070	---	---	2.88	1983
1984	---	---	0.338	0.862	0.273	1.06	0.003	0.007	0	0.077	---	---	0.300	1984
1985	---	---	10.8	9.86	0.481	0.277	0.033	3.23	0.418	0.480	---	---	3.21	1985
1986	---	---	10.3	28.3	15.7	0.540	1.58	0.485	0.108	0.138	---	---	7.11	1986
1987	---	---	1.35	31.5	0.785	0.154	0.058	0.036	0.018	0.210	---	---	4.15	1987
1988	---	---	0.237	3.46	0.869	0.075	0	0	0	0	---	---	0.573	1988
MEAN	---	---	1.85	17.8	5.45	1.12	1.18	0.418	0.199	0.186	---	---	3.21	MEAN

LOCATION - LAT 49 29 22 N LONG 97 28 51 W
DRAINAGE AREA, 2 210 km^2
NATURAL FLOW

MORRIS RIVER NEAR ROSEMORY - STATION NO. 05DF020

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	100 ON APR 15	0 B ON MAR 1 *	152 000	1969
1970	---	134 ON MAY 1	0 B ON MAR 1	---	1970
1971	---	82.6 ON APR 12	0 B ON MAR 1	85 700	1971
1972	73.3 AT 08:10 CST ON APR 17	71.8 ON APR 17	0 B ON MAR 1	72 800	1972
1973	---	8.24 ON JUN 21	0 B ON MAR 1	14 000	1973
1974	170 AT 22:07 CST ON APR 23 *	167 ON APR 24 *	0.001 ON AUG 20	284 000	1974
1975	28.8 AT 22:01 CST ON APR 28	22.6 ON APR 30	0.001 ON AUG 2	39 700	1975
1976	82.1 AT 08:24 CST ON APR 10	81.0 ON APR 10	0 ON JUL 10	88 000	1976
1977	---	7.788 ON APR 10	0 B ON MAR 1	11 200	1977
1978	61.68 AT 01:06 CST ON APR 14	48.6 B ON APR 13	0 B ON MAR 1	84 100	1978
1979	---	---	0 B ON MAR 1	---	1979
1980	16.38 AT 19:57 CST ON APR 10	15.5 B ON APR 10	0 B ON MAR 1	17 800	1980
1981	---	3.708 ON MAR 28	0 A ON SEP 2	11 900	1981
1982	15.4 AT 21:20 CST ON APR 15	15.6 ON APR 15	0 B ON MAR 1	15 700	1982
1983	61.68 AT 09:06 CST ON APR 7	61.1 B ON APR 7	0 ON AUG 17	83 000	1983
1984	---	7.432E ON JUN 23	0 B ON MAR 1	6 340	1984
1985	45.0 AT 21:22 CST ON MAR 28	43.2 B ON MAR 28	0 B ON MAR 1	68 000	1985
1986	113 AT 08:26 CST ON APR 1	112 ON APR 1	0 B ON MAR 1	151 000	1986
1987	121 AT 02:26 CST ON APR 9	118 ON APR 9	0.001 ON AUG 9	88 600	1987
1988	14.18 AT 01:26 CST ON APR 6	13.1 B ON APR 6	0 ON JUN 27	12 100	1988
				88 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	84.3	81.5	59.2	50.4	40.9	31.6	28.0	---	---	1948
1949	---	---	---	18.5	15.6	12.2	5.44	2.74	1.33	1.16	1.11	---	7.15	1949
1950	---	---	---	12.5	11.8	28.7	30.3	25.0	18.9	19.8	17.9	---	20.6	1950
1951	---	---	---	17.7	27.1	20.5	9.79	4.84	4.14	4.69	4.57	---	11.5	1951
1952	---	---	---	26.5	26.3	11.5	5.20	2.57	2.04	1.70	1.30	---	9.54	1952
1953	---	---	8.35	18.9	28.2	69.6	68.2	54.1	41.8	34.8	31.1	---	43.3	1953
1954	---	---	15.4	21.1	29.5	54.5	53.4	35.5	33.5	34.6	29.2	---	38.5	1954
1955	---	---	24.2	38.0	48.5	52.2	48.5	35.3	27.2	21.0	---	---	---	1955
1956	---	---	12.4	16.5	30.5	38.0	48.8	38.0	30.4	24.1	---	---	---	1956
MEAN	---	---	14.6	21.0	33.3	38.9	35.5	27.6	22.2	19.2	15.9	---	21.4	MEAN

LOCATION - LAT 51 30 13 N, LONG 99 59 45 W
DRAINAGE AREA, 9 030 km^2
REGULATED

MOSSY RIVER ABOVE FORK RIVER - STATION NO. 05LJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	59.88 ON APR 28	---	---	1948
1949	---	22.4 ON APR 4	0.283 ON OCT 30 *	151 000	1949
1950	---	50.4 ON OCT 23	4.50 ON MAY 8	436 000	1950
1951	---	36.2 ON MAY 1	2.55 ON SEP 13	243 000	1951
1952	---	31.18 ON APR 8	0.850 ON NOV 6	201 000	1952
1953	---	105 E ON JUN 5 *	12.5 ON APR 2	913 000	1953
1954	---	87.1 ON JUN 18	13.9 ON APR 10	769 000	1954
1955	---	61.7 ON JUN 24	---	---	1955
1956	---	51.8 ON JUL 15	---	---	1956
				452 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER AT LACY'S FARM BELOW FISHING RIVER - STATION NO. 05LJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	24.4	23.3	23.1	30.8	45.0	40.5	31.3	---	1912
1913	---	---	---	---	---	---	---	34.8	28.1	20.1	18.4	18.8	---	1913
1914	18.8	18.1	14.5	13.9	19.7	20.2	14.8	---	---	---	---	---	---	1914
MEAN	18.8	18.1	14.5	13.9	19.7	22.3	19.0	29.0	28.5	32.8	29.5	25.1	---	MEAN

LOCATION - LAT 51 27 40 N, LONG 99 59 20 W
DRAINAGE AREA, 8 980 km^2
NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	---	14.0	9.55	7.78	6.76	6.23	4.81	---	1914
1915	4.25	4.83	8.50	7.35	5.07	5.00	5.83	3.56	2.60	3.08	2.28	1.84	4.51	1915
1916	0.490	0.416	0.397	2.85	6.59	27.1	19.6	12.1	9.42	8.57	8.47	3.68	8.22	1916
1917	8.46	8.16	8.43	12.5	17.4	15.0	20.0	11.6	9.36	7.22	7.70	4.99	10.8	1917
1918	3.77	3.98	8.88	10.2	9.57	10.6	7.72	8.77	5.34	5.08	4.27	2.35	6.55	1918
1919	1.77	1.49	2.96	6.85	7.49	5.87	5.53	4.03	3.25	3.21	3.62	1.88	4.15	1919
1920	0.806	0.941	1.01	13.8	27.2	19.5	14.2	8.58	6.36	5.88	5.72	5.89	9.13	1920
1921	5.85	5.71	7.02	12.3	16.6	33.1	18.8	18.9	22.7	19.3	22.6	18.2	16.8	1921
1922	14.2	12.2	10.3	39.0	50.5	36.3	30.5	28.0	22.5	17.6	17.8	19.6	26.9	1922
1923	18.2	18.0	19.7	---	---	---	---	---	---	---	---	---	---	1923
MEAN	6.18	6.27	7.47	13.3	17.6	19.1	15.1	11.5	9.95	8.80	8.53	6.99	10.6	MEAN

LOCATION - LAT 51 31 40 N LONG 99 59 30 W DRAINAGE AREA, 9 500 km² NATURAL FLOW

MOSSY RIVER AT WILSON'S FARM BELOW FORK RIVER - STATION NO. 05LJ002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	21.4 ON MAR 27	0.878 ON OCT 28	142 000	1915
1916	---	55.2 ON JUN 27	0.3688 ON FEB 24 *	260 000	1916
1917	---	34.3 ON JUN 30	2.29 ON OCT 11	339 000	1917
1918	---	25.8 ON MAR 28	1.78 B ON DEC 31	207 000	1918
1919	---	14.78 ON APR 5	1.08 B ON DEC 30	131 000	1919
1920	---	52.48 ON APR 25	0.8218 ON JAN 20	289 000	1920
1921	---	85.0 ON JUN 20 *	2.01 B ON FEB 18	531 000	1921
1922	---	54.8 ON MAY 15	8.97 B ON MAR 23	786 000	1922
1923	---	21.08 ON MAR 31	14.2 B ON JAN 18	---	1923
				336 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	---	---	---	---	23.0	19.3	19.8	---	1956
1957	18.0	15.4	13.6	19.0	31.4	28.8	24.1	10.5	4.08	3.20	2.18	2.38	14.4	1957
1958	2.21	1.84	2.28	4.59	2.88	1.81	1.78	1.16	0.888	0.834	0.624	0.471	1.77	1958
1959	0.344	0.312	0.887	1.83	1.81	1.29	1.76	2.26	1.84	1.83	1.90	1.80	1.48	1959
1960	1.14	1.36	1.68	15.8	28.4	29.3	20.3	14.0	10.1	6.83	5.89	6.08	11.8	1960
1961	5.43	4.72	4.91	8.57	2.02	1.25	0.688	0.123	0.020	---	---	---	---	1961
1962	---	---	---	---	---	---	---	---	---	0.072	0.038	0.033	---	1962
1963	0.016	0	0.045	0.885	0.938	1.31	0.893	0.630	0.668	0.597	0.482	0.814	0.551	1963
1964	0.851	0.833	0.581	0.845	0.250	0.008	0.085	0.037	0.121	---	---	---	---	1964
1965	---	---	---	---	---	---	---	---	---	0.078	0.128	0.158	---	1965
1966	0.158	0.180	1.54	23.9	35.5	33.4	29.7	24.9	19.6	14.8	4.02	0.875	15.8	1966
1967	0.763	0.858	5.70	18.6	34.8	32.4	26.0	18.3	2.65	1.45	0.808	0.593	11.8	1967
1968	0.642	0.443	0.846	1.23	1.54	1.71	1.16	0.959	1.18	0.700	0.786	0.906	0.883	1968
1969	1.26	1.11	1.26	6.81	12.9	13.2	21.6	22.3	17.9	14.6	12.5	2.40	10.7	1969
1970	0.877	0.852	1.16	12.2	38.6	42.9	36.4	29.1	22.7	18.4	18.8	18.6	20.2	1970
1971	18.3	18.4	13.7	16.6	22.1	24.6	21.6	12.2	1.80	0.033	2.08	5.09	13.1	1971
1972	5.71	4.42	4.43	16.5	36.1	31.3	21.9	10.6	1.84	0.182	0.297	0.977	11.2	1972
1973	0.878	1.70	1.33	1.06	0.881	0.227	0.247	0.242	0.258	0.260	0.906	1.47	0.783	1973
1974	2.05	2.17	2.39	26.9	52.8	58.6	54.2	41.1	33.1	26.4	23.5	19.9	30.6	1974
1975	18.3	16.1	14.1	16.4	30.3	32.6	24.4	15.6	22.8	42.0	38.3	33.5	25.4	1975
1976	27.7	23.9	20.9	36.4	47.2	47.4	50.7	36.7	25.5	20.1	16.3	6.15	29.8	1976
1977	5.13	4.87	2.09	1.86	10.7	1.11	7.56	0.807	3.27	16.8	15.2	14.8	7.03	1977
1978	13.6	12.2	10.6	13.7	17.8	15.5	10.1	0.385	0.307	0.920	5.33	0.906	8.49	1978
1979	0.818	0.846	2.23	15.8	54.8	57.4	46.8	33.7	26.1	21.5	18.5	17.0	24.7	1979
1980	15.5	13.4	12.3	13.7	3.08	0.445	0.238	0.299	0.339	0.273	2.17	8.09	5.81	1980
1981	7.83	7.35	2.13	1.14	0.122	0.238	0.182	0.196	0.190	0.152	0.752	5.14	2.16	1981
1982	8.00	7.25	3.18	3.75	15.2	4.10	2.30	0.945	0.308	0.273	0.398	4.38	4.17	1982
1983	7.79	5.84	8.72	13.6	29.3	30.7	32.2	26.9	19.1	15.8	14.1	11.6	18.1	1983
1984	8.40	5.25	1.23	0.125	10.0	14.1	6.34	0.081	0.057	2.00	8.82	8.68	5.51	1984
1985	9.16	9.26	8.08	13.4	17.3	7.72	0.325	2.53	13.4	14.8	14.1	12.5	10.2	1985
1986	11.2	10.7	10.4	21.6	41.0	40.4	32.2	25.8	19.7	17.5	14.1	13.1	21.6	1986
1987	12.6	11.2	11.0	16.3	17.6	10.4	0.257	0.206	0.273	2.04	7.30	5.69	7.88	1987
1988	2.29	0.089	0.137	0.441	17.9	22.0	4.44	0.284	0.154	0.259	0.213	0.383	4.06	1988
MEAN	6.92	6.06	5.43	11.4	20.6	19.9	16.0	11.0	8.35	8.68	8.08	7.28	11.4	MEAN

LOCATION - LAT 51 27 00 N LONG 99 58 00 W DRAINAGE AREA, 8 710 km² REGULATED

MOSSY RIVER BELOW OUTLET OF DAUPHIN LAKE - STATION NO. 05LJ025

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	---	---		
1957	37.1 AT 12:10 CST ON MAY 19	33.7 ON MAY 19	1.76 ON NOV 7	454 000	1956
1958	9.85 AT 12:40 CST ON APR 18	8.21 ON APR 18	0.3118 ON DEC 30	55 800	1957
1959	17.7 AT 15:50 CST ON AUG 1	4.13 ON MAY 9	0.2278 ON FEB 2	46 000	1958
1960	38.8 AT 07:30 CST ON JUN 17	34.5 ON JUN 7	0.8818 ON JAN 14	372 000	1959
1961	---	7.56 A ON JAN 8	---	---	1960
1962	---	---	---	---	1961
1963	3.98 AT 06:10 CST ON JUN 22	2.30 ON JUN 21	0 B ON JAN 18 *	17 400	1962
1964	---	0.8978 ON JAN 21	0 E ON JUN 21	---	1963
1965	---	---	---	---	1964
1966	39.6 AT 03:20 CST ON MAY 21	37.7 ON MAY 21	0.1568 ON JAN 10	498 000	1965
1967	39.6 AT 23:00 CST ON MAY 21	37.9 ON MAY 21	0.122 ON OCT 24	371 000	1966
1968	---	3.82 ON MAY 8	0.133 ON MAY 15	31 100	1967
1969	---	27.3 ON AUG 5	0.3348 ON MAR 26	337 000	1968
1970	---	49.0 ON MAY 24	0.5018 ON MAR 11	838 000	1969
1971	---	29.7 ON JUN 14	0.012 ON OCT 29	411 000	1970
1972	---	41.8 ON JUN 1	0.127 ON OCT 17	365 000	1971
1973	---	2.80 B ON FEB 17	0.085 ON OCT 7	25 000	1972
1974	---	78.6 ON MAY 27 *	1.28 B ON JAN 1	885 000	1973
1975	---	48.7 ON OCT 5	3.17 ON AUG 25	801 000	1974
1976	---	61.4 ON JUN 23	3.77 ON DEC 19	948 000	1975
1977	---	22.5 ON OCT 22	0.218 ON AUG 10	221 000	1976
1978	---	26.3 ON JUN 8	0.113 ON JUL 28	258 000	1977
1979	69.2 AT 15:11 CST ON JUN 5 *	64.7 ON JUN 5	0.8578 ON JAN 10	760 000	1978
1980	17.6 AT 08:31 CST ON JAN 12	17.5 ON JAN 12	0.139 ON JUN 26	184 000	1979
1981	11.2 AT 21:55 CST ON DEC 17	10.8 ON DEC 18	0.042E ON OCT 17	88 100	1980
1982	20.4 AT 13:15 CST ON MAY 23	17.8 ON MAY 23	0.015E ON OCT 21	131 000	1981
1983	38.2 AT 06:48 CST ON JUL 9	34.8 ON JUL 14	8.58 B ON FEB 27	572 000	1982
1984	23.1 AT 23:58 CST ON JUN 24	18.8 ON MAY 15	0.003 ON AUG 30	174 000	1983
1985	26.5 AT 20:04 CST ON OCT 16	21.3 ON MAY 3	0.073 ON AUG 18	321 000	1984
1986	54.6 AT 12:00 CST ON MAY 21	51.2 ON MAY 21	3.84 B ON NOV 8	580 000	1985
1987	29.2 AT 02:45 CST ON MAY 15	21.7 ON APR 30	0.153 ON AUG 30	248 000	1986
1988	31.9 AT 00:27 CST ON MAY 25	28.1 ON MAY 24	0.0028 ON JAN 28	128 000	1987
				381 000	1988
					MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05UB021

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	1.78	0.072	0.083	0.003	0	0	0	---	---	---	1982
1983	---	---	0.010	0.030	0.002	0.108	0.040	0.008	0.001	0	---	---	---	1983
1984	---	---	0	0.288	0.025	0.015	0.008	0	0	0	---	---	---	1984
1985	---	---	0	1.41	0.332	0.053	0.001	0	0	0	---	---	---	1985
1986	---	---	1.41	2.55	1.33	0.148	0.057	0.038	0.010	0	---	---	---	1986
1987	---	---	0.052	2.83	1.70	0.067	0.002	0	0	0	---	---	---	1987
1988	---	---	0.071	0.176	0.001	0	0	0	0	0	---	---	---	1988
1989	---	---	0	3.66	0.182	0.389	0.196	0.034	0	0	---	---	---	1989
1990	---	---	0	3.26	0.909	0.784	0.506	0.044	0.008	0.006	---	---	---	1990
1991	---	---	0	5.84	0.383	0.092	0.033	0	0	0	---	---	---	1991
1992	---	---	0.818	1.14	0.140	0.016	0	0	0	0	---	---	---	1992
1993	---	---	0.300	0.030	0	0	0	0	0	0	---	---	---	1993
1994	---	---	0	5.88	4.51	0.454	0.026	0	0	0	---	---	---	1994
1995	---	---	0	0.527	0.293	0.005	0.002	0	0	0	---	---	---	1995
1996	---	---	0	3.42	0.081	0.024	0.009	0.004	0	0	---	---	---	1996
1997	---	---	0.001	0.078	0.002	0	0	0	0.101	0	---	---	---	1997
1998	---	---	0.008	3.03	0.204	0.031	0.029	0.002	0	0	---	---	---	1998
1999	---	---	0	5.06	2.28	0.024	0.250	0.113	0.226	0.129	---	---	---	1999
2000	---	---	0.004	0.418	0.222	0.098	0.032	0.047	0.058	0.148	---	---	---	2000
2001	---	0.181	0.385	0.118	0.058	0.031	0.012	0.028	0.008	0.008	---	---	---	2001
2002	---	---	0.032	0.948	0.188	0.142	0.112	0.004	0	0.072	---	---	---	2002
2003	---	---	0.502	1.02	0.084	0.027	0.011	0.005	0	0	---	---	---	2003
2004	---	---	0.134	0.107	0.047	0.255	0.001	0	0	0	---	---	---	2004
2005	---	---	1.78	0.522	0.024	0.212	0.428	0.252	0.090	0.078	---	---	---	2005
2006	0	0	1.43	1.08	0.336	0.508	0.142	0.084	0.002	0.061	0	0	0.334	2006
2007	0	0	0	4.40	0.011	0.029	0	0.050	0.002	0.053	0.018	0.001	0.375	2007
2008	0	0.003	0.048	0.228	0.001	0	0	0	0	0	0	0	0.023	2008
MEAN	0	0.041	0.257	1.85	0.495	0.147	0.072	0.028	0.019	0.018	0.006	0	0.244	MEAN

LOCATION - LAT 49 00 00 N, LONG 98 27 15 W
DRAINAGE AREA, 381 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

MOWBRAY CREEK NEAR MOWBRAY - STATION NO. 05DB021

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	---	---	---	1982
1983	---	---	---	---	1983
1984	---	---	---	---	1984
1985	---	---	---	---	1985
1986	---	---	---	---	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
1989	---	---	---	---	1989
1970	---	---	---	---	1970
1971	---	---	---	---	1971
1972	---	---	---	---	1972
1973	---	---	---	---	1973
1974	19.0 AT 12:13 CST ON APR 21	---	---	---	1974
1975	---	---	---	---	1975
1976	12.8 AT 11:13 CST ON APR 7	---	---	---	1976
1977	0.624 AT 13:00 CST ON SEP 8	---	---	---	1977
1978	---	---	---	---	1978
1979	22.0 AT 00:00 CST ON APR 25	---	---	---	1979
1980	5.77 AT 00:26 CST ON MAY 29	---	---	---	1980
1981	3.57 AT 20:22 CST ON MAY 22	---	---	---	1981
1982	9.80 B AT 15:26 CST ON APR 14	---	---	---	1982
1983	---	---	---	---	1983
1984	1.92 AT 20:58 CST ON JUN 10	---	---	---	1984
1985	13.7 B AT 00:13 CST ON MAR 22	---	---	---	1985
1986	---	11.0 B ON MAR 28	0B ON JAN 1 *	10 500	1986
1987	28.7 B AT 04:56 CST ON APR 5 *	22.3 B ON APR 8 *	0B ON JAN 1	11 600	1987
1988	1.55 B AT 14:51 CST ON APR 3	1.11B ON APR 3	0B ON JAN 1	738	1988
				7 880	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	381	307	177	---	1967
1968	174	175	185	220	330	380	385	383	408	383	394	280	305	1968
1969	281	300	312	422	598	597	592	577	579	580	521	412	481	1969
1970	398	398	393	481	675	720	781	682	584	483	457	357	531	1970
1971	365	372	371	488	688	688	578	525	448	400	293	306	455	1971
1972	318	318	320	498	673	648	563	487	402	348	297	202	423	1972
1973	197	232	275	355	367	388	458	436	368	358	231	187	331	1973
1974	---	177	294	474	698	679	683	614	708	---	---	---	---	1974
1975	382	401	392	445	675	702	718	711	654	531	404	274	523	1975
1976	246	241	250	362	420	428	424	451	358	218	92.4	86.7	298	1976
1977	84.1	83.8	84.4	115	183	---	180	178	185	228	185	135	---	1977
1978	118	121	128	171	448	503	551	546	541	498	387	336	355	1978
1979	177	182	222	282	440	587	589	549	532	447	282	267	378	1979
1980	213	214	218	324	472	477	508	488	478	400	304	258	359	1980
1981	176	173	186	240	318	369	424	430	388	330	211	151	282	1981
1982	133	126	123	171	385	483	552	583	483	375	289	212	328	1982
1983	187	191	185	208	441	514	556	547	473	420	323	210	357	1983
1984	204	198	193	260	393	447	482	482	342	313	181	147	304	1984
1985	146	153	167	194	329	388	490	528	557	554	502	408	370	1985
1986	338	284	259	434	530	613	643	535	443	420	212	188	393	1986
1987	185	180	186	341	476	619	521	508	481	343	229	132	341	1987
1988	110	118	140	182	287	334	329	284	251	192	150	127	209	1988
MEAN	221	221	232	317	467	528	527	510	456	389	297	220	388	MEAN

LOCATION - LAT 54 14 39 N
LONG 97 35 27 W

REGULATED SINCE 1973

NELSON RIVER (EAST CHANNEL) BELOW SEA RIVER FALLS - STATION NO. 05UB008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	---	487 ON NOV 13	159 B ON MAR 25	9 840 000	1968
1969	680 AT 07:14 CST ON MAY 28	668 ON MAY 28	273 B ON JAN 1	15 200 000	1969
1970	827 AT 15:03 CST ON AUG 8 *	807 ON JUL 22 *	328 ON OCT 3	18 800 000	1970
1971	759 AT 01:00 CST ON MAY 29	725 ON MAY 28	185 ON NOV 7	14 400 000	1971
1972	733 AT 12:07 CST ON MAY 8	728 ON MAY 15	183 B ON DEC 30	13 400 000	1972
1973	813 AT 12:10 CST ON JUL 12	498 ON JUL 12	167 B ON DEC 30	10 100 000	1973
1974	---	---	---	---	1974
1975	---	790 ON AUG 7	254 B ON DEC 30	18 500 000	1975
1976	827 AT 14:00 CST ON AUG 18	513 ON AUG 18	85.0E ON DEC 31 *	9 480 000	1976
1977	---	---	---	---	1977
1978	843 AT 15:20 CST ON SEP 23	823 ON SEP 23	117 B ON JAN 15	11 200 000	1978
1979	867 AT 19:38 CST ON JUN 25	846 ON JUL 8	189 B ON JAN 21	11 800 000	1979
1980	598 AT 08:40 CST ON AUG 29	570 ON AUG 29	182 B ON DEC 31	11 300 000	1980
1981	520 AT 14:10 CST ON SEP 23	489 ON SEP 23	140 RB ON DEC 30	8 880 000	1981
1982	763 AT 19:30 CST ON AUG 8	735 ON AUG 9	122 B ON MAR 15	10 300 000	1982
1983	---	521 ON AUG 3	179 B ON APR 11	11 200 000	1983
1984	587 AT 17:40 CST ON JUN 30	545 ON JUN 30	143 B ON DEC 28	9 810 000	1984
1985	686 AT 19:00 CST ON AUG 28	664 ON SEP 15	143 B ON JAN 1	11 700 000	1985
1986	619 AT 13:00 CST ON JUL 6	594 ON JUL 6	187 B ON DEC 25	12 400 000	1986
1987	581 AT 19:00 CST ON JUN 24	563 ON JUN 24	118 B ON DEC 31	10 700 000	1987
1988	438 AT 18:24 CST ON SEP 8	413 ON SEP 8	96.0E ON OCT 28	6 800 000	1988
				11 800 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED R - REVISED SINCE JAN 01 1986

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	2 880	2 700	2 550	2 340	---	---	---	1967
1968	---	---	---	---	---	2 380	2 400	2 350	2 470	---	---	---	---	1968
1969	---	---	---	---	2 850	2 810	2 830	2 770	2 770	---	---	---	---	1969
1972	1 810	1 770	1 850	2 050	2 760	2 980	2 780	2 600	2 340	2 180	1 910	1 700	2 230	1972
1973	1 490	1 480	1 480	1 670	---	---	---	---	---	---	---	---	---	1973
1976	2 080	1 830	1 740	1 980	3 080	2 800	2 040	1 400	1 330	2 000	1 780	1 810	1 950	1976
1977	1 410	1 330	1 300	833	884	828	750	767	784	1 180	1 880	1 610	1 110	1977
1978	1 580	1 480	1 410	1 230	856	613	582	718	1 070	2 120	2 270	2 210	1 380	1978
1979	2 080	1 970	1 930	1 880	2 880	3 480	3 440	1 120	1 050	1 840	2 430	1 880	2 180	1979
1980	1 790	1 780	1 670	1 350	917	885	886	828	891	1 690	1 870	2 050	1 270	1980
1981	1 930	1 710	1 080	868	468	492	888	852	1 070	1 920	2 190	1 800	1 210	1981
1982	1 880	1 520	1 410	1 300	1 020	752	880	1 110	1 880	2 220	2 140	2 030	1 490	1982
1983	1 870	1 920	1 900	1 830	1 270	932	1 110	1 150	1 220	1 780	2 100	1 790	1 580	1983
1984	1 750	1 620	1 800	1 330	974	883	1 140	1 150	1 350	1 840	1 880	1 880	1 440	1984
1985	1 780	1 700	1 830	1 520	1 110	1 250	1 280	1 210	1 420	1 880	2 210	2 810	1 880	1985
1986	2 220	2 180	2 120	2 310	3 380	3 080	1 880	1 440	1 480	1 930	2 180	2 170	2 180	1986
1987	2 070	1 870	1 770	1 460	944	533	814	847	1 020	1 540	1 880	1 870	1 310	1987
1988	1 810	1 410	1 110	827	678	488	480	480	513	923	1 360	1 340	930	1988
MEAN	1 810	1 710	1 800	1 480	1 580	1 550	1 530	1 350	1 470	1 820	1 880	1 810	1 570	MEAN

LOCATION - LAT 54 29 53 N
LONG 98 02 53 W REGULATED SINCE 1975

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER (WEST CHANNEL) AT JENPEG - STATION NO. 05UB009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	3 080 AT 15:28 CST ON JUL 10	3 000 ON JUL 10	---	---	1967
1968	2 840 AT 13:50 CST ON SEP 15	2 580 ON SEP 15	---	---	1968
1969	3 000 AT 06:14 CST ON MAY 28	2 870 ON MAY 28	---	---	1969
1972	3 140 AT 12:41 CST ON MAY 30 *	3 080 ON MAY 22	1 800B ON DEC 31	70 400 000	1972
1973	---	---	---	---	1973
1976	---	3 280 ON MAY 28	878 ON JUL 19	81 800 000	1976
1977	---	2 180 ON NOV 16	578 ON MAY 19	35 000 000	1977
1978	---	2 470 ON DEC 2	527 ON JUL 2	43 000 000	1978
1979	---	3 650 ON JUL 9	450 ON AUG 20	69 000 000	1979
1980	---	2 280 ON DEC 5	284 ON MAY 16 *	40 200 000	1980
1981	---	2 280 ON OCT 23	378 ON JUN 7	36 100 000	1981
1982	---	2 320 ON NOV 10	733 ON MAY 27	47 000 000	1982
1983	---	2 210 ON NOV 19	872 ON JUN 11	49 800 000	1983
1984	---	2 080 ON NOV 13	880 ON MAY 28	45 500 000	1984
1985	---	2 870 ON DEC 30	877 ON MAY 29	52 300 000	1985
1986	---	3 690 ON MAY 15 *	1 280 ON JUL 22	88 600 000	1986
1987	---	2 110 ON JAN 1	496 ON JUN 21	41 400 000	1987
1988	---	1 840 ON JAN 27	402 ON JUN 18	29 400 000	1988
				49 400 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	---	---	---	---	---	2 090	2 030	1 810	---	1958
1959	1 350	1 280	1 040	1 110	2 080	2 750	2 970	2 940	2 830	2 710	2 420	1 870	2 130	1959
1960	1 750	1 880	1 980	2 020	2 850	3 180	3 040	2 840	2 690	2 450	2 130	1 850	2 350	1960
1961	1 390	1 380	1 380	1 620	1 820	2 150	2 060	1 870	1 810	1 650	1 380	852	1 620	1961
1962	853	828	788	815	1 780	2 040	2 230	2 260	2 370	2 450	2 200	1 650	1 680	1962
1963	988	948	1 240	1 580	2 070	2 470	2 650	2 510	2 440	2 320	2 060	1 680	1 920	1963
1964	1 420	1 330	1 210	1 210	1 930	2 200	2 280	2 240	2 210	2 100	1 970	1 800	1 810	1964
1965	1 350	1 320	1 380	1 580	2 490	3 280	3 400	3 410	3 280	3 220	2 590	2 550	2 490	1965
1966	2 280	2 080	2 140	2 580	3 300	4 270	4 540	4 230	3 890	3 520	2 720	2 350	3 180	1966
1967	2 330	2 240	2 210	2 280	3 090	3 780	3 640	3 320	3 080	2 800	2 300	2 010	2 740	1967
1968	1 880	1 850	1 780	1 770	2 240	2 810	2 690	2 810	2 740	2 700	2 540	1 880	2 290	1968
1969	2 090	2 150	2 340	2 700	3 310	3 310	3 270	3 230	3 350	3 290	3 130	2 680	2 910	1969
1970	2 530	2 460	2 740	2 780	3 250	3 840	3 820	3 800	3 240	2 940	3 000	2 580	3 050	1970
1971	2 200	2 380	2 450	2 760	3 440	3 590	3 410	3 120	2 920	2 710	2 280	2 010	2 780	1971
1972	1 840	2 050	2 380	2 570	3 380	3 610	3 410	3 090	2 730	2 540	2 210	1 870	2 650	1972
1973	2 010	2 030	2 100	2 170	2 400	2 030	1 920	1 630	1 630	1 800	1 970	1 850	1 980	1973
1974	1 830	1 750	1 820	2 410	3 330	4 180	4 480	4 270	3 880	3 690	3 330	2 580	3 130	1974
1975	2 180	2 180	2 510	2 780	3 380	3 720	3 190	3 330	3 050	3 750	3 850	3 080	3 070	1975
1976	3 310	2 820	2 450	2 520	3 150	3 220	2 810	2 080	1 780	2 270	2 130R	1 700R	2 520R	1976
1977	1 580	1 490	1 440	1 050	822	1 080	1 080	1 020	1 050	1 300	2 350	1 940	1 350	1977
1978	1 740	1 830	1 590	1 620	1 880	1 180	1 180	1 300	1 580	2 640	2 970	2 750	1 820	1978
1979	2 380	2 220	2 200	2 300	3 490	4 570	4 420	2 320	1 550	2 290	3 020	2 330	2 780	1979
1980	2 130	2 060	1 970	1 980	1 180	1 200	1 000	1 150	1 250	2 080	2 440	2 350	1 730	1980
1981	2 220	1 990	1 850	1 110	1 040	815	1 210	1 170	1 420	2 240	2 740	2 210	1 650	1981
1982	1 950	1 790	1 650	1 610	1 770	1 410	1 490	1 740	2 370	2 830	2 990	2 730	2 030	1982
1983	2 680	2 590	2 580	2 520	2 180	1 780	1 650	1 800	1 880	2 280	2 830	2 510	2 290	1983
1984	2 380	2 130	1 990	2 020	1 840	1 600	1 780	1 780	1 840	2 080	2 270	2 280	1 980	1984
1985	2 230	2 110	1 980	2 110	1 740	1 840	2 000	1 890	2 180	2 850	2 910	3 400	2 250	1985
1986	3 270	2 830	2 800	3 090	4 320	4 320	2 920	2 410	2 140	2 430	2 780	2 880	3 010	1986
1987	2 520	2 430	2 210	2 100	1 690	1 250	1 270	1 280	1 510	1 920	2 080	1 850	1 840	1987
1988	1 830	1 840	1 470	1 150	1 230	905	785	756	785	1 030	1 540	1 570	1 220	1988
MEAN	2 020	1 930	1 910	1 980	2 400	2 800	2 580	2 380	2 320	2 470	2 480R	2 180R	2 270R	MEAN

LOCATION - LAT 54 48 30 N
LONG 97 55 50 W

DRAINAGE AREA, 1 000 000 km²
REGULATED SINCE 1973

R - REVISED SINCE JAN 01 1987

REMARKS - FOR THE PERIOD 1914-81 LAKE WINNIPEG ELEVATION WERE USED TO COMPUTE MONTHLY MEAN DISCHARGES FOR THIS STATION

NELSON RIVER ABOVE BLADDER RAPIDS - STATION NO. 05UD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	---	---	---	1958
1959	---	3 080 ON SEP 9	968B ON MAR 31	67 100 000	1959
1960	---	3 280 ON JUN 15	1 480B ON DEC 31	74 400 000	1960
1961	---	2 220 ON JUN 7	897B ON DEC 20 *	51 100 000	1961
1962	---	3 550 ON OCT 11	728B ON APR 15	53 000 000	1962
1963	---	2 720 ON JUN 30	917B ON FEB 3	60 500 000	1963
1964	---	3 360 ON AUG 5	1 190B ON MAR 21	57 200 000	1964
1965	---	3 510A ON JUN 28	1 310B ON JAN 11	78 500 000	1965
1966	---	4 820 ON JUL 12	2 050B ON FEB 5	89 900 000	1966
1967	3 850 AT 08:40 CST ON JUN 6	3 820 ON JUN 6	1 980B ON DEC 21	86 400 000	1967
1968	---	2 860 ON SEP 21	1 700 ON APR 6	72 400 000	1968
1969	3 570 AT 10:42 CST ON SEP 5	3 540 ON SEP 5	1 930B ON JAN 1	81 700 000	1969
1970	3 940 AT 21:33 CST ON JUL 15	3 810 ON JUL 11	2 350B ON DEC 31	98 200 000	1970
1971	3 850 AT 02:00 CST ON MAY 29	3 650 ON MAY 29	1 890B ON DEC 21	87 800 000	1971
1972	3 880 AT 02:11 CST ON JUN 14	3 820 ON JUN 14	1 760B ON DEC 11	83 800 000	1972
1973	2 540 AT 05:36 CST ON MAY 26	2 530 ON MAY 25	1 500 ON SEP 18	82 400 000	1973
1974	4 590 AT 04:00 CST ON JUL 15	4 580 ON JUL 14	1 870B ON FEB 27	98 800 000	1974
1975	---	3 840E ON AUG 28	2 020B ON JAN 30	88 800 000	1975
1976	---	3 820E ON JAN 1	1 810RB ON DEC 30	78 800 000R	1976
1977	2 530 AT 08:07 CST ON NOV 20	2 530 ON NOV 20	673E ON MAY 10	42 600 000	1977
1978	3 170 AT 07:00 CST ON NOV 5	3 140 ON NOV 5	1 120 ON JUN 9	67 500 000	1978
1979	4 780 AT 14:45 CST ON JUN 20	4 780 ON JUN 20	1 250 ON AUG 31	87 100 000	1979
1980	2 590 AT 18:27 CST ON NOV 3	2 580 ON NOV 3	884 ON JUL 12	54 800 000	1980
1981	2 880 AT 21:15 CST ON NOV 7	2 860 ON NOV 8	781 ON JUN 17	52 000 000	1981
1982	3 110 AT 19:18 CST ON NOV 11	3 070 ON NOV 12	1 380 ON JUN 3	64 000 000	1982
1983	3 000 AT 21:40 CST ON NOV 7	2 930 ON NOV 7	1 580 ON JUL 8	72 200 000	1983
1984	---	2 430B ON JAN 1	1 490 ON JUN 11	62 800 000	1984
1985	---	3 480B ON DEC 28	1 580 ON MAY 28	71 000 000	1985
1986	4 870 AT 10:38 CST ON MAY 30 *	4 830 ON MAY 30 *	2 050 ON SEP 14	94 900 000	1986
1987	---	2 580B ON JAN 1	1 180 ON JUN 18	58 200 000	1987
1988	---	1 860B ON JAN 27	721 ON SEP 1	38 800 000	1988
				71 800 000R	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	3 280	3 080	2 900	2 840	1 920	1 450	---	1960
1961	1 520	1 440	1 390	1 370	1 910	1 840	2 070	1 990	1 850	1 830	1 340	1 020	1 620	1961
1962	975	868	810	783	1 580	2 000	2 110	2 140	2 180	2 370	2 170	1 790	1 680	1962
1963	1 550	1 440	1 440	1 450	2 410	2 570	2 870	2 880	2 530	2 430	2 180	1 630	2 100	1963
1964	1 420	1 380	1 240	1 240	2 040	2 350	2 330	2 400	2 440	2 330	2 130	1 710	1 920	1964
1965	1 480	1 450	1 430	1 420	2 730	3 300	3 810	3 540	3 520	3 310	2 780	2 570	2 810	1965
1966	2 340	2 230	2 280	2 400	3 290	4 400	4 800	4 530	4 080	3 870	2 880	2 430	3 280	1966
1967	2 380	2 290	2 260	2 300	2 910	3 820	3 790	3 450	3 110	2 770	2 350	1 940	2 790	1967
1968	1 720	1 700	1 690	1 740	2 480	2 720	2 780	2 870	2 790	2 770	2 680	2 510	2 350	1968
1969	2 300	2 170	2 420	2 660	3 280	3 320	3 230	3 380	3 640	3 870	3 080	2 890	3 010	1969
1970	2 550	2 520	2 510	2 800	3 320	3 810	4 110	3 900	3 570	3 110	2 870	2 340	3 110	1970
1971	2 370	2 280	2 480	2 640	3 560	3 820	3 790	3 380	3 140	2 900	2 400	2 200	2 820	1971
1972	2 070	2 040	2 130	2 380	3 550	3 830	3 750	3 280	2 920	2 620	2 140	1 730	2 710	1972
1973	1 780	1 770	1 790	1 980	2 430	2 170	1 860	1 800	1 600	1 700	1 980	1 840	1 900	1973
1974	1 890	1 820	2 030	2 140	2 780	3 410	3 880	3 870	3 590	3 440	3 080	2 370	2 870	1974
1975	2 320	2 270	2 380	2 340	2 920	3 210	3 050	2 880	2 760	3 110	3 180	2 410	2 740	1975
1976	2 470	2 170	2 030	2 170	2 820	3 000	2 880	2 040	1 740	1 840	2 020	1 840	2 280	1976
1977	1 710	1 840	1 880	1 550	857	1 100	1 150	989	1 210	1 270	1 850	1 800	1 410	1977
1978	1 790	1 830	1 980	1 690	1 430	1 250	1 170	1 250	1 440	2 180	2 500	2 580	1 750	1978
1979	2 490	2 540	2 420	2 080	2 910	3 900	4 030	2 890	1 530	1 830	2 460	2 290	2 610	1979
1980	2 100	2 070	2 180	1 980	1 340	1 180	978	1 080	1 320	1 740	2 140	2 150	1 680	1980
1981	2 140	2 170	1 820	915	840	886	1 320	952	1 320	1 770	2 330	2 170	1 580	1981
1982	1 840	1 800	1 680	1 610	1 890	1 480	1 500	1 490	1 850	2 330	2 440	2 300	1 850	1982
1983	2 190	2 240	2 300	2 340	1 930	1 780	1 660	1 710	1 750	1 990	2 320	2 220	2 030	1983
1984	2 180	2 080	2 180	1 880	1 580	1 610	1 570	1 550	1 880	1 880	1 990	2 080	1 850	1984
1985	2 030	2 080	1 780	1 850	1 880	1 730	1 880	1 690	1 840	2 250	2 390	2 470	1 980	1985
1986	2 550	2 700	2 800	2 380	3 490	3 900	3 040	2 020	1 930	1 980	2 240	2 450	2 610	1986
1987	2 320	2 180	2 090	2 000	1 710	1 230	1 190	1 130	1 380	1 510	1 750	1 750	1 680	1987
1988	1 830	1 600	1 430	1 110	1 380	1 010	771	727	730	890	1 330	1 370	1 180	1988
MEAN	2 010	1 880	1 840	1 880	2 330	2 540	2 570	2 380	2 280	2 350	2 310	2 080	2 220	MEAN

LOCATION - LAT 56 02 20 N
LONG 98 31 30 W

DRAINAGE AREA, 1 010 000 km²
REGULATED SINCE 1960

DATA CONTRIBUTED BY - MANITOBA HYDRO

NELSON RIVER AT KELSEY GENERATING STATION - STATION NO. 05UE005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	2 580 ON AUG 2	881 ON DEC 20	51 200 000	1961
1962	---	2 510 ON OCT 18	742 ON APR 14	52 300 000	1962
1963	---	3 000 ON JUL 11	1 310 ON APR 14	66 200 000	1963
1964	---	2 990 ON SEP 13	1 150 ON APR 8	60 600 000	1964
1965	---	3 770 ON SEP 14	1 270 ON APR 11	62 400 000	1965
1966	---	4 980 ON JUL 22 *	2 180 ON FEB 3	103 000 000	1966
1967	---	4 020 ON JUN 8	1 810 ON DEC 31	68 000 000	1967
1968	---	3 340 ON DEC 25	1 570 ON MAR 5	74 400 000	1968
1969	---	3 820 ON SEP 9	2 040 ON JAN 14	94 900 000	1969
1970	---	4 190 ON JUL 6	2 280 ON DEC 16	98 100 000	1970
1971	---	3 980 ON JUL 9	1 950 ON NOV 22	92 100 000	1971
1972	---	4 180 ON JUN 16	1 600 ON DEC 13	85 700 000	1972
1973	---	2 660 ON JUN 4	1 440 ON SEP 13	60 000 000	1973
1974	---	3 980 ON JUL 28	1 830 ON FEB 5	90 600 000	1974
1975	---	3 430 ON JUL 1	2 200 ON FEB 6	86 300 000	1975
1976	---	3 170 ON JUN 8	1 800 ON SEP 18	71 600 000	1976
1977	---	2 120 ON NOV 15	418 ON MAY 8 *	44 300 000	1977
1978	---	2 780 ON NOV 7	971 ON JUL 10	55 300 000	1978
1979	---	4 080 ON JUL 7	1 380 ON SEP 5	82 600 000	1979
1980	---	2 280 ON MAR 10	884 ON JUL 21	53 300 000	1980
1981	---	2 470 ON NOV 29	497 ON AUG 3	48 300 000	1981
1982	---	2 590 ON NOV 10	1 080 ON JUL 1	58 400 000	1982
1983	---	2 480 ON NOV 18	1 520 ON MAY 4	64 100 000	1983
1984	---	2 270 ON JAN 1	1 370 ON MAY 8	58 800 000	1984
1985	---	2 610 ON DEC 31	1 590 ON JUN 14	62 900 000	1985
1986	---	4 050 ON JUN 12	1 880 ON SEP 18	82 400 000	1986
1987	---	2 440 ON JAN 1	877 ON JUN 21	53 100 000	1987
1988	---	1 720 ON JAN 1	597 ON SEP 3	36 700 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		69 900 000	MEAN

NELSON RIVER AT KETTLE GENERATING STATION - STATION NO. 05UF006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	3 660	3 450	3 400	3 120	3 100	2 420	2 890	3 100	2 400	2 440	2 890	2 920	2 850	1987
1988	2 710	2 780	2 720	1 970	2 850	2 200	1 780	1 600	1 850	1 820	3 110	2 300	2 220	1988
MEAN	3 190	3 120	3 060	2 550	2 980	2 310	2 190	1 850	2 130	2 130	2 400	2 610	2 540	MEAN

LOCATION - LAT 56 22 48 N
LONG 94 38 02 W

REGULATED SINCE 1970

DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT KETTLE GENERATING STATION - STATION NO. 05UF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	3 180 ON JAN 24 *	693 ON MAY 24	80 000 000	1987
1988	---	3 820 ON MAY 15	701 ON OCT 8 *	70 300 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		85 300 000	MEAN

NELSON RIVER AT LONG SPRUCE GENERATING STATION - STATION NO. 05UF007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	3 700	3 510	3 480	3 170	3 180	2 480	2 600	2 110	2 420	2 480	2 880	2 640	2 880	1987
1988	2 730	2 800	2 740	1 880	3 830	2 280	1 810	1 610	1 870	1 820	2 110	2 290	2 250	1988
MEAN	3 220	3 160	3 100	2 580	3 060	2 370	2 210	1 880	2 150	2 140	2 400	2 670	2 570	MEAN

LOCATION - LAT 56 33 51 N
LONG 98 22 10 W

REGULATED SINCE 1977

DATA CONTRIBUTED BY - MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

NELSON RIVER AT LONG SPRUCE GENERATING STATION - STATION NO. 05UF007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1987	---	4 280 ON JAN 23 *	304 ON DEC 24 *	80 800 000	1987
1988	---	3 870 ON MAY 15	715 ON OCT 8	71 000 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		80 900 000	MEAN

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1951	---	---	---	---	---	---	---	3 310	3 180	3 110	2 580	2 010	---	1951
1952	1 770	1 700	1 650	1 710	2 810	2 880	2 980	2 810	2 880	2 720	2 520	2 180	2 370	1952
1953	1 910	1 780	1 670	1 880	2 080	2 800	2 940	3 100	3 100	3 120	2 880	2 430	2 440	1953
1954	2 120	1 840	1 810	1 580	2 180	2 870	3 270	3 840	3 570	3 530	3 370	3 110	2 720	1954
1955	2 820	2 480	2 240	2 180	3 080	3 510	3 800	3 780	3 580	3 380	2 880	2 880	3 020	1955
1956	2 420	2 170	2 080	2 020	3 830	3 480	3 450	3 410	3 250	2 840	2 740	2 210	2 780	1956
1957	1 800	1 740	1 700	1 880	3 210	3 730	3 950	2 850	2 820	2 700	2 270	1 840	2 300	1957
1958	1 840	1 830	1 800	1 880	2 030	2 310	2 250	2 280	2 280	---	---	---	---	1958
MEAN	2 080	1 880	1 780	1 770	2 430	2 880	3 080	3 160	3 080	3 070	2 780	2 330	2 800	MEAN

LOCATION - LAT 55 13 24 N
LONG 97 13 06 W

DRAINAGE AREA, 1 010 000 km^2
NATURAL FLOW

NELSON RIVER BELOW SIPIWESK LAKE - STATION NO. 05UE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	---	---	---	1951
1952	---	3 030 ON JUL 23	1 850E ON MAR 1	75 000 000	1952
1953	---	3 140 ON SEP 30	1 850E ON APR 1	77 000 000	1953
1954	---	3 800 ON SEP 3	1 590E ON APR 1	68 900 000	1954
1955	3 850 AT 09:00 CST ON JUL 31 *	3 850 ON JUL 16 *	2 180E ON APR 1	95 400 000	1955
1956	3 480 AT 02:00 CST ON JUL 23	3 480 ON JUL 23	2 020E ON APR 1	88 800 000	1956
1957	3 030 AT 20:00 CST ON AUG 7	3 000 ON JUL 29	1 880E ON APR 1	72 400 000	1957
1958	---	2 340 ON JUN 12	1 500E ON MAR 1 *	---	1958
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		82 100 000	MEAN

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	1.43	0.409	0.086	0.010	0.051	0.024	0.004	---	---	0.478	1980
1981	---	---	0.089	0.361	0.024	0	0	0	0	0	---	---	0.113	1981
1982	---	---	0	0.383	0.104	0.159	0	0.831	0.186	0.069	---	---	0.182	1982
1983	---	---	0.515	4.42	1.87	2.84	0.801	0.078	0	0	---	---	2.42	1983
1984	---	---	0	0.186	0.084	0.067	0.040	0.050	0	0	---	---	0.083	1984
1985	---	---	0	1.01	0.493	0.418	0.116	0.007	0.003	0.003	---	---	0.478	1985
1986	---	---	0.100	0.741	0.686	0.094	0.082	0.003	0	0	---	---	0.489	1986
1987	---	---	0	1.46	0.457	0.018	0	0	0	0	---	---	0.483	1987
1988	---	---	0.063	0.076	0.033	0.011	0.009	0.302	0.048	0.027	---	---	0.081	1988
1989	---	---	0	2.17	0.837	0.335	0.083	0.028	0.008	0.009	---	---	0.805	1989
1970	---	---	0	0.843	1.04	0.287	0.104	0.015	0	0.001	---	---	0.570	1970
1971	---	---	0	0.887	0.124	0.010	0.009	0.001	0	0	---	---	0.247	1971
1972	---	---	0	0.865	0.043	0.002	0	0	0	0	---	---	0.234	1972
1973	---	---	0.032	0.002	0.003	0.428	---	---	---	---	---	---	0.115	1973
1974	---	---	0	7.44	7.28	1.48	---	---	---	---	---	---	4.03	1974
1975	---	---	0	0.349	0.105	0.012	---	---	---	---	---	---	0.115	1975
1976	---	---	0	3.55	0.994	0.082	---	---	---	---	---	---	1.15	1976
1977	---	---	0	0.002	0	0.004	---	---	---	---	---	---	0.002	1977
1978	---	---	0	3.48	0.776	0.187	---	---	---	---	---	---	1.10	1978
1979	---	---	0	2.86	3.92	1.78	---	---	---	---	---	---	2.09	1979
1980	---	---	0	0.177	0	0	---	---	---	---	---	---	0.044	1980
1981	---	---	0.011	0.006	0.002	0.003	---	---	---	---	---	---	0.006	1981
1982	---	---	0.271	2.02	0.082	0.009	---	---	---	---	---	---	0.585	1982
1983	---	---	0.027	2.07	0.106	0.134	---	---	---	---	---	---	0.575	1983
1984	---	---	0.029	0.142	0.026	0.005	---	---	---	---	---	---	0.052	1984
1985	---	---	0.084	0.488	0.088	0.025	---	---	---	---	---	---	0.180	1985
1986	---	---	0.213	1.37	3.30	0.304	---	---	---	---	---	---	1.05	1986
1987	---	---	0	0.888	0.084	0.002	---	---	---	---	---	---	0.280	1987
1988	---	---	0	0.309	0	0.008	---	---	---	---	---	---	0.077	1988
MEAN	---	---	0.069	1.38	0.781	0.305	0.081	0.105	0.021	0.008	---	---	0.620	MEAN

LOCATION - LAT 50 26 52 N
LONG 97 05 56 W
DRAINAGE AREA, 245 km²
NATURAL FLOW

REMARKS - HIGHER MAX DISCHARGES OCCURRED OUTSIDE THE STD PER IN 1984 AND 88. EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

NETLEY CREEK NEAR MATLOCK - STATION NO. 05OJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	4.61 B ON APR 17	05 ON MAR 1 *	5 030	1980
1981	---	0.580 ON APR 2	05 ON MAR 1	1 190	1981
1982	---	2.26 ON APR 30	05 ON MAR 1	1 610	1982
1983	---	8.27 ON APR 8	05 ON MAR 1	35 400	1983
1984	---	0.617 ON APR 18	05 ON MAR 1	578	1984
1985	---	5.15 B ON APR 14	05 ON MAR 1	5 020	1985
1986	---	3.89 ON MAY 5	05 ON MAR 1	4 830	1986
1987	---	4.02 B ON APR 14	05 ON MAR 1	5 060	1987
1988	---	1.11 B ON MAR 30	05 ON MAR 1	535	1988
1989	---	8.01 B ON APR 13	05 ON MAR 1	8 480	1989
1970	---	4.64 B ON APR 19	05 ON MAR 1	5 000	1970
1971	---	4.47 ON APR 19	05 ON MAR 1	2 610	1971
1972	---	4.42 ON APR 15	05 ON MAR 1	2 380	1972
1973	---	1.98 ON JUN 19	05 ON MAR 1	1 210	1973
1974	---	26.7 ON APR 22 *	05 ON MAR 1	42 600	1974
1975	---	1.13 B ON APR 23	05 ON MAR 1	1 220	1975
1976	---	7.05 ON APR 13	05 ON MAR 1	12 100	1976
1977	---	0.026 ON JUN 19	05 ON MAR 1	16.4	1977
1978	---	8.71 ON APR 13	05 ON MAR 1	11 800	1978
1979	---	9.64 ON APR 22	05 ON MAR 1	22 000	1979
1980	---	0.672B ON APR 14	05 ON MAR 1	489	1980
1981	0.779 AT 09:31 CST ON MAY 8	0.083E ON MAR 29	05 ON MAR 1	83.6	1981
1982	---	7.03 B ON APR 13	05 ON MAR 1	6 170	1982
1983	8.74 AT 13:12 CST ON APR 6 *	5.18 ON APR 6	05 ON MAR 1	8 060	1983
1984	---	0.340B ON MAR 30	05 ON MAR 1	853	1984
1985	1.85 B AT 13:44 CST ON APR 2	1.31 B ON APR 2	05 ON MAR 1	1 880	1985
1986	4.78 B AT 09:59 CST ON APR 1	4.04 ON MAY 5	05 ON MAR 1	11 100	1986
1987	5.07 B AT 19:00 CST ON APR 5	3.55 B ON APR 5	05 ON MAR 1	2 730	1987
1988	---	1.81 B ON APR 3	05 ON MAR 1	816	1988
				6 530	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.024	5.31	1.14	0.285	0.107	0.120	0.088	0.003	---	---	1.24	1980
1981	---	---	0.632	1.73	0.308	0.028	0.001	0	0	0.002	---	---	0.334	1981
1982	---	---	0	3.11	0.383	0.282	0.082	2.14	0.441	0.361	---	---	0.630	1982
1983	---	---	2.22	10.6	2.41	5.88	0.907	0.230	0.047	0.076	---	---	2.76	1983
1984	---	---	0.008	1.94	0.324	0.173	0.124	0.170	0.130	0.082	---	---	0.368	1984
1985	---	---	0	6.89	0.983	0.789	0.238	0.088	0.104	0.119	---	---	1.10	1985
1986	---	---	0.008	4.43	2.84	0.287	0.245	0.067	0.047	0.085	---	---	0.972	1986
1987	---	---	0	5.70	0.894	0.116	0.058	0.023	0.021	0.018	---	---	0.978	1987
1988	---	---	0.540	1.35	0.159	0.172	0.229	0.137	0.252	0.240	---	---	0.484	1988
1989	---	---	0.040	7.36	1.84	0.618	0.314	0.200	0.085	0.103	---	---	1.32	1989
1970	---	---	0.010	5.87	1.91	0.572	0.289	0.070	0.080	0.080	---	---	1.22	1970
1971	---	---	0.013	7.08	0.286	0.229	0.440	0.048	0.063	0.216	---	---	1.03	1971
1972	---	---	0.018	5.61	0.206	0.057	0.081	0.037	0.042	0.042	---	---	0.745	1972
1973	---	---	0.851	0.078	0.033	0.471	0.122	0.086	0.306	0.335	---	---	0.248	1973
1974	---	---	0.014	22.5	13.8	2.34	0.783	0.184	0.105	0.090	---	---	4.83	1974
1975	---	---	0.003	2.36	0.236	0.080	0.028	0.031	0.025	0.050	---	---	0.344	1975
1976	---	---	0	9.36	1.22	0.188	0.039	0.012	0.030	0.033	---	---	1.32	1976
1977	---	---	0.011	0.272	0.026	0.157	0.053	0.039	0.471	0.178	---	---	0.149	1977
1978	---	---	0	11.5	1.13	0.347	0.560	0.015	0.005	0.054	---	---	1.88	1978
1979	---	---	0	13.7	7.06	2.70	0.384	0.076	0.077	0.062	---	---	2.87	1979
1980	---	---	0	1.36	0.221	0.080	0.012	0.053	0.051	0.150	---	---	0.236	1980
1981	---	---	0.144	0.117	0.027	0.013	0.063	0.012	0.055	0.387	---	---	0.104	1981
1982	---	---	1.24	3.94	0.345	0.154	0.070	0.138	0.094	0.232	---	---	0.764	1982
1983	---	---	0.424	5.61	0.192	1.53	0.361	0.110	0.047	0.074	---	---	1.15	1983
1984	---	---	0.484	0.810	0.149	0.178	0.138	0.100	0.088	0.148	---	---	0.280	1984
1985	---	---	1.56	0.870	0.215	0.098	0.056	0.173	0.098	0.088	---	---	0.387	1985
1986	---	---	2.32	5.79	4.81	0.538	0.131	0.063	0.080	0.065	---	---	1.84	1986
1987	---	---	0	4.02	0.184	0.072	0.046	0.193	0.087	0.088	---	---	0.575	1987
1988	---	---	0	1.83	0.044	0.070	0.046	0.038	0.078	0.063	---	---	0.228	1988
MEAN	---	---	0.367	5.43	1.49	0.638	0.208	0.188	0.108	0.121	---	---	1.05	MEAN

LOCATION - LAT 50 19 38 N DRAINAGE AREA, 599 km²
LONG 97 02 39 W NATURAL FLOW

NETLEY CREEK NEAR PETERSFIELD - STATION NO. 05OJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	41.3 ON APR 15	0 B ON MAR 1 *	26 200	1980
1981	---	5.30 ON APR 21	0 B ON MAR 1	7 080	1981
1982	---	25.0 B ON APR 21	0 B ON MAR 1	17 800	1982
1983	---	37.4 ON APR 9	0 ON SEP 8	58 500	1983
1984	---	9.63 B ON APR 15	0.0088 ON MAR 1	7 750	1984
1985	---	31.4 ON APR 15	0 B ON MAR 1	23 300	1985
1986	---	12.5 ON MAY 5	0 B ON MAR 1	20 800	1986
1987	---	21.0 ON APR 16	0 B ON MAR 1	20 700	1987
1988	---	7.59 ON AUG 25	0 B ON MAR 1	10 200	1988
1989	---	32.6 B ON APR 13	0.0408 ON MAR 1	27 900	1989
1970	---	25.5 B ON APR 25	0.0108 ON MAR 1	25 800	1970
1971	---	28.6 ON APR 19	0.011 ON AUG 28	21 900	1971
1972	---	23.2 ON APR 18	0.0188 ON MAR 1	15 700	1972
1973	---	3.48 B ON MAR 23	0.018 ON JUN 12	5 240	1973
1974	---	71.8 ON APR 21 *	0.0148 ON MAR 1	104 000	1974
1975	---	5.94 ON APR 21	0 ON JUL 15	7 280	1975
1976	---	38.5 ON APR 10	0 B ON MAR 1	25 000	1976
1977	---	2.42 ON SEP 28	0 B ON MAR 1	3 180	1977
1978	---	36.0 ON APR 16	0 B ON MAR 1	35 600	1978
1979	---	83.4 ON APR 23	0 B ON MAR 1	62 900	1979
1980	---	4.91 B ON APR 10	0 B ON MAR 1	4 930	1980
1981	0.845 AT 03:04 CST ON OCT 14	0.795 ON OCT 14	0 B ON MAR 1	2 200	1981
1982	12.0 AT 03:12 CST ON APR 15	11.7 B ON MAR 30	0 B ON MAR 1	18 200	1982
1983	---	21.7 ON APR 8	0 B ON MAR 1	24 300	1983
1984	---	3.83 B ON MAR 31	0 B ON MAR 1	5 510	1984
1985	---	6.74 B ON MAR 28	0 B ON MAR 1	8 410	1985
1986	37.6 B AT 00:48 CST ON MAR 31 *	33.6 B ON MAR 31	0 B ON MAR 1	39 000	1986
1987	32.0 B AT 11:02 CST ON APR 8	28.7 B ON APR 8	0 B ON MAR 1	12 200	1987
1988	---	11.0 B ON APR 3	0 B ON MAR 1	4 820	1988
				22 300	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH DUCK RIVER AT COWAN - STATION NO. 05LC004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.128	1.23	1.98	1.23	2.02	2.86	0.548	0.377	---	---	1.28	1968
1969	---	---	0.147	2.62	2.42	1.84	1.16	0.855	0.818	2.89	---	---	1.64	1969
1970	---	---	0.184	2.56	8.06	1.99	3.85	0.550	0.630	3.80	---	---	2.87	1970
1971	---	---	0.178	5.41	1.91	3.52	2.76	0.639	0.423	1.06	---	---	1.88	1971
1972	---	---	0.175	4.20	5.22	0.878	0.882	0.253	0.175	0.318	---	---	1.48	1972
1973	---	---	0.093	1.00	2.71	5.28	2.77	0.433	2.21	1.23	---	---	2.32	1973
1974	---	---	0.230	5.72	9.52	2.28	0.339	0.528	1.01	0.808	---	---	2.56	1974
1975	---	---	0.207	2.89	6.83	3.31	0.277	0.281	4.24	1.84	---	---	2.47	1975
1976	---	---	0.235	6.84	3.56	8.06	0.578	0.224	0.131	0.188	---	---	2.44	1976
1977	---	---	0.161	1.41	0.817	0.197	0.649	1.19	4.44	1.62	---	---	1.32	1977
1978	---	---	0.185	2.82	2.13	0.703	0.139	0.052	0.233	0.468	---	---	0.650	1978
1979	---	---	0.128	1.29	12.1	3.28	0.261	0.081	0.081	0.368	---	---	2.21	1979
1980	---	---	0.085	2.06	0.401	0.198	0.061	0.575	5.199	0.274	---	---	0.459	1980
1981	---	---	0.055	0.884	0.975	2.51	0.540	0.172	0.141	0.589	---	---	0.723	1981
1982	---	---	0.030	1.87	1.58	1.05	5.05	0.417	0.218	0.627	---	---	1.26	1982
1983	---	---	0.139	2.48	7.61	2.32	2.05	0.211	0.246	0.380	---	---	1.95	1983
1984	---	---	0.367	2.78	5.26	5.12	0.824	0.170	0.532	2.02	---	---	2.11	1984
1985	---	---	0.362	5.27	2.17	3.37	0.780	3.80	1.02	1.89	---	---	2.49	1985
1986	---	---	0.532	4.75	4.76	1.20	1.26	0.214	1.35	1.15	---	---	1.91	1986
1987	---	---	0.523	4.21	0.975	0.885	1.67	0.805	0.436	1.48	---	---	1.36	1987
1988	---	---	0.243	7.21	14.0	0.703	0.134	0.105	0.112	0.197	---	---	2.84	1988
MEAN	---	---	0.212	3.46	4.54	2.48	1.33	0.852	0.826	1.12	---	---	1.84	MEAN

LOCATION - LAT 52 01 50 N DRAINAGE AREA, 223 km²
LONG 100 38 00 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "DUCK RIVER AT COWAN"

NORTH DUCK RIVER AT COWAN - STATION NO. 05LC004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1968	---	17.7 ON AUG 20	0.0889 ON MAR 1	27 000	1968
1969	---	14.6 ON OCT 4	0.103 ON AUG 27	32 700	1969
1970	---	23.6 E ON OCT 29	0.139 ON SEP 15	89 700	1970
1971	---	23.8 ON JUL 25	0.1788 ON MAR 1	41 800	1971
1972	---	16.9 ON APR 30	0.051 ON SEP 2	31 400	1972
1973	---	88.1 ON JUN 20	0.059 ON AUG 24	49 200	1973
1974	---	33.7 ON MAY 22	0.102 ON AUG 10	84 000	1974
1975	---	25.5 ON SEP 20	0.061 ON JUL 29	52 300	1975
1976	110 ON JUN 14	83.0 ON JUN 14 *	0.119 ON SEP 26	51 700	1976
1977	17.6 AT 08:41 CST ON SEP 26	15.6 ON SEP 26	0.062 ON JUN 28	27 900	1977
1978	11.4 AT 03:28 CST ON APR 29	10.8 ON APR 28	0.007 ON AUG 10	18 000	1978
1979	41.0 AT 07:30 CST ON MAY 26	36.9 ON MAY 26	0.018 ON SEP 1	46 700	1979
1980	8.51 AT 04:05 CST ON APR 22	8.23 ON APR 21	0.0058 ON MAR 1	9 720	1980
1981	18.1 AT 11:23 CST ON JUN 24	13.3 ON JUN 24	0 B ON MAR 1 *	15 300	1981
1982	116 AT 18:01 CST ON JUL 17 *	49.8 ON JUL 18	0 B ON MAR 1	28 800	1982
1983	27.7 B AT 12:19 CST ON APR 24	20.3 ON MAY 19	0.077 ON AUG 24	41 500	1983
1984	38.0 AT 17:52 CST ON JUN 23	29.2 ON JUN 23	0.0898 ON SEP 1	44 800	1984
1985	51.2 AT 02:45 CST ON AUG 14	38.2 ON AUG 14	0.2268 ON MAR 3	52 700	1985
1986	17.6 AT 05:42 CST ON MAY 5	15.9 ON MAY 5	0.0838 ON MAR 6	40 400	1986
1987	15.0 AT 23:37 CST ON APR 8	12.6 B ON APR 8	0.188 ON JUN 30	29 200	1987
1988	85.6 AT 23:57 CST ON MAY 2	76.4 ON MAY 2	0.008 ON AUG 11	60 200	1988
				38 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	0.582	5.16	9.13	2.32	0.969	2.06	1.85	---	---	---	1954
1955	---	---	---	1.54	3.56	1.43	0.315	0.020	0.074	0.143	---	---	---	1955
1956	---	---	---	0.082	3.32	2.84	1.66	0.204	0.328	0.311	---	---	---	1956
1957	---	---	0	1.36	3.64	0.457	0.177	0.062	0.127	0.123	---	---	0.732	1957
1958	---	---	0.100	0.803	0.380	0.228	1.76	0.268	1.14	0.726	---	---	0.852	1958
1959	---	---	0.206	0.614	1.67	3.80	1.33	0.145	2.63	1.88	---	---	1.50	1959
1960	---	---	0.025	1.36	5.29	3.02	0.782	0.268	0.185	0.260	---	---	1.40	1960
1961	---	---	0.028	0.127	0.316	0.072	0.013	0.004	0.014	0.108	---	---	0.085	1961
1962	---	---	0.028	0.481	0.822	0.446	0.154	0.126	0.378	0.237	---	---	0.305	1962
1963	---	---	0.024	1.11	2.35	2.03	0.441	0.051	0.085	0.104	---	---	0.772	1963
1964	---	---	0.177	0.578	1.45	0.131	0.061	0.053	0.062	0.108	---	---	0.326	1964
1965	---	---	0.087	0.541	4.28	1.73	1.18	1.72	1.88	0.587	---	---	1.50	1965
1966	---	---	0.157	0.614	4.83	3.81	1.81	0.761	0.078	0.187	---	---	1.51	1966
1967	---	---	0.234	0.875	5.22	2.08	0.621	1.01	0.187	0.498	---	---	1.36	1967
1968	---	---	0.145	0.584	1.58	1.38	1.48	2.50	0.804	0.438	---	---	1.08	1968
1969	---	---	0.181	2.10	1.85	1.30	1.85	0.805	1.08	2.80	---	---	1.47	1969
1970	---	---	0.317	1.21	7.07	2.69	4.31	1.28	0.884	2.18	---	---	2.62	1970
1971	---	---	0.198	3.22	1.98	2.81	2.15	0.745	0.213	1.80	---	---	1.62	1971
1972	---	---	0.152	2.03	4.86	1.23	0.870	0.215	0.184	0.185	---	---	1.21	1972
1973	---	---	0.067	0.433	1.75	5.37	2.46	0.638	1.88	0.726	---	---	1.65	1973
1974	---	---	0.226	3.10	7.52	2.74	0.813	0.860	1.75	0.970	---	---	2.22	1974
1975	---	---	0.122	1.40	5.72	3.76	0.861	0.411	1.81	1.86	---	---	1.86	1975
1976	---	---	0.178	3.48	2.04	5.70	1.51	0.873	0.201	0.174	---	---	1.65	1976
1977	---	---	0.100	1.09	1.29	0.295	1.67	1.02	3.58	2.13	---	---	1.39	1977
1978	---	---	0.114	0.922	1.41	1.43	0.455	0.110	0.545	0.862	---	---	0.702	1978
1979	---	---	0.149	0.581	5.84	3.23	0.575	0.458	0.478	0.475	---	---	1.83	1979
1980	---	---	0.252	1.94	0.588	0.318	0.284	2.45	0.480	0.545	---	---	0.851	1980
1981	---	---	0.353	0.511	0.785	2.64	0.518	0.238	0.150	0.503	---	---	0.898	1981
1982	---	---	0.033	0.761	0.855	0.402	2.62	0.741	0.389	1.26	---	---	0.898	1982
1983	---	---	0.101	1.12	5.84	2.30	2.21	0.832	0.465	0.808	---	---	1.84	1983
1984	---	---	0.120	1.23	3.03	5.28	1.35	0.855	0.754	1.58	---	---	1.77	1984
1985	---	---	0.048	2.83	2.17	2.37	1.40	3.78	1.47	1.41	---	---	1.84	1985
1986	---	---	0.269	2.21	4.01	1.15	1.17	0.585	1.31	1.87	---	---	1.56	1986
1987	---	---	0.556	2.76	1.12	1.10	2.22	0.389	0.415	0.880	---	---	1.19	1987
1988	---	---	0.420	2.65	8.87	1.80	0.755	0.307	0.205	0.218	---	---	2.01	1988
MEAN	---	---	0.162	1.34	3.33	2.33	1.26	0.719	0.805	0.851	---	---	1.32	MEAN

LOCATION - LAT 51 49 00 N DRAINAGE AREA, 210 km²
LONG 100 32 00 W NATURAL FLOW

NORTH PINE RIVER NEAR PINE RIVER - STATION NO. 05LG001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	24.1 ON MAY 28	0 B ON APR 1 *	---	1954
1955	---	13.6 ON MAY 4	0 ON AUG 12	---	1955
1956	---	9.03 ON JUN 26	0 B ON APR 1	---	1956
1957	---	12.6 ON MAY 1	0 B ON MAR 1	15 500	1957
1958	13.6 AT 09:00 CST ON JUL 6	10.7 ON JUL 7	0 B ON MAR 1	13 800	1958
1959	19.8 AT 19:00 CST ON JUN 27	18.6 ON JUN 28	0 B ON MAR 22	31 800	1959
1960	13.1 AT 21:00 CST ON MAY 13	12.4 ON MAY 13	0 B ON MAR 1	29 700	1960
1961	---	0.450 ON MAY 7	0 B ON MAR 1	1 810	1961
1962	1.88 AT 00:25 CST ON MAY 31	1.68 ON MAY 31	0 B ON MAR 1	8 480	1962
1963	9.12 AT 20:30 CST ON MAY 13	7.88 ON MAY 14	0 B ON MAR 1	16 300	1963
1964	5.38 AT 18:40 CST ON MAY 8	4.84 ON MAY 9	0.020 ON JUL 27	8 940	1964
1965	18.3 AT 12:15 CST ON MAY 7	18.0 ON MAY 7	0.0718 ON MAR 1	31 700	1965
1966	13.5 AT 11:30 CST ON MAY 19	12.7 ON MAY 19	0.031 ON SEP 23	31 800	1966
1967	11.6 B AT 02:00 CST ON MAY 7	9.46 B ON MAY 7	0.099 ON SEP 7	28 700	1967
1968	8.30 AT 04:05 CST ON AUG 20	7.78 ON AUG 20	0.1108 ON MAR 1	23 100	1968
1969	14.5 AT 02:01 CST ON OCT 4	13.2 ON OCT 4	0.1818 ON MAR 1	31 200	1969
1970	25.7 AT 18:10 CST ON JUL 24	18.8 ON JUL 25	0.3178 ON MAR 1	53 200	1970
1971	12.5 AT 02:30 CST ON JUN 6	11.4 ON JUN 6	0.184 ON SEP 12	34 300	1971
1972	11.8 AT 01:30 CST ON APR 30	10.8 ON APR 30	0.122 04 AUG 27	25 700	1972
1973	26.4 AT 20:55 CST ON JUN 19	24.9 ON JUN 20	0.0258 ON MAR 1	35 000	1973
1974	20.5 AT 00:05 CST ON MAY 22	18.0 ON MAY 22	0.1988 ON MAR 30	46 800	1974
1975	13.1 AT 04:23 CST ON MAY 8	12.3 ON MAY 8	0.1228 ON MAR 1	41 800	1975
1976	25.2 AT 04:49 CST ON JUN 14	24.8 ON JUN 14	0.133 ON SEP 23	39 200	1976
1977	10.6 AT 05:11 CST ON SEP 26	10.1 ON SEP 26	0.0788 ON MAR 1	29 800	1977
1978	3.65 AT 22:00 CST ON APR 27	3.23 ON APR 28	0.048 ON AUG 12	14 800	1978
1979	25.3 AT 01:38 CST ON MAY 26	23.8 ON MAY 26	0.1338 ON MAR 1	38 700	1979
1980	9.37 AT 11:45 CST ON AUG 8	8.58 ON AUG 8	0.113 ON JUL 31	18 000	1980
1981	8.84 AT 11:36 CST ON JUN 18	7.80 ON JUN 18	0.075 ON SEP 11	14 700	1981
1982	21.6 AT 14:29 CST ON JUL 17	18.0 ON JUL 18	0.0208 ON MAR 1	19 000	1982
1983	14.3 AT 03:19 CST ON MAY 19	12.9 ON MAY 19	0.0888 ON APR 3	34 700	1983
1984	27.8 AT 09:11 CST ON JUN 23	24.3 ON JUN 23	0.0828 ON MAR 31	37 400	1984
1985	21.7 AT 05:48 CST ON AUG 14	19.0 ON AUG 14	0 B ON MAR 1	41 200	1985
1986	10.2 AT 04:19 CST ON SEP 27	9.47 ON SEP 27	0.010E ON SEP 4	33 800	1986
1987	8.49 AT 03:27 CST ON APR 8	8.61 ON APR 8	0.1408 ON MAR 1	25 200	1987
1988	36.3 AT 21:40 CST ON MAY 2 *	32.2 ON MAY 2 *	0.131 ON SEP 17	42 800	1988
				27 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06CB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	---	---	---	---	---	---	---	268	209	183	---	1972
1973	95.2	88.2	56.1	43.2	79.6	143	126	87.4	83.9	55.1	52.1	42.3	75.8	1973
1974	39.1	36.9	31.0	24.6	---	---	101	173	194	188	112	87.6R	---	1974
1975	53.8	45.5	37.3	41.7	115	196	206	154	107	86.9	77.7	70.5	101	1975
1976	63.9	49.6	41.0	39.8	---	---	230	136	103	139	135	100	---	1976
1977	79.7R	63.8	51.0	56.1	179	278	248	248	219	173	125	89.7	155 R	1977
1978	66.2	49.7	38.6	38.8	40.4	266	278	274	380	297	195	123	169	1978
1979	80.6	57.9	42.6	34.9	39.3	213	195	133	82.7	70.1	66.6	55.6	66.6	1979
1980	40.4	33.6	28.6	35.0	78.7	127	131	172	381	278	180	115	134	1980
1981	72.3R	52.0	41.1	36.3	70.6	200	189	156	123	105	88.8	66.7	101 R	1981
1982	46.4	36.4	32.1	27.6	63.1	214	215	130	103	111	110	75.9R	89.3R	1982
1983	58.7	49.0	42.6	39.1	46.6	378	488	282	278	308	260	151	188	1983
1984	106	78.7	58.2	57.1	213	284	198	143	110	105	88.2	66.6	124	1984
1985	66.8	48.8	43.7	40.0	144	340	204	121	99.3	115	117	88.9	118	1985
1986	67.1	53.0	41.3	31.6	126	667	330	222	148	114	88.4	70.7	188	1986
1987	62.0	53.6	44.6	37.1	126	266	266	167	119	109	102	84.6	125	1987
1988	77.9	66.7	51.7	40.6	66.4	501	396	204	117	85.0	70.8	60.9	144	1988
MEAN	67.4R	52.7	42.6	38.4	100	280	242	176	164	151	122	89.0R	126 R	MEAN

LOCATION - LAT 58 50 40 N LONG 98 17 20 W
DRAINAGE AREA, 13 400 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

NORTH SEAL RIVER BELOW STONY LAKE - STATION NO. 06CB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1972	---	---	---	---	1972
1973	---	149 ON JUN 13	39.6B ON DEC 26	2 390 000	1973
1974	203 AT 14:00 CST ON SEP 8	200 ON SEP 8	---	---	1974
1975	226 AT 17:00 CST ON JUL 2	222 ON JUL 2	36.0B ON MAR 26	3 180 000	1975
1976	283 AT 11:35 CST ON JUN 21	281 ON JUN 21	---	---	1976
1977	317 AT 10:30 CST ON AUG 11	314 ON AUG 11	45.3b ON APR 6	4 880 000R	1977
1978	408 AT 17:16 CST ON SEP 11	405 ON SEP 11	27.6B ON APR 29	5 330 000	1978
1979	251 AT 18:40 CST ON JUN 18	247 ON JUN 18	32.6B ON MAY 2	2 790 000	1979
1980	424 AT 18:57 CST ON SEP 18	423 ON SEP 18	27.8B ON APR 8	4 230 000	1980
1981	215 AT 14:56 CST ON JUL 6	214 ON JUL 9	35.6B ON APR 30	3 200 000R	1981
1982	252 AT 15:46 CST ON JUL 1	252 ON JUL 3	26.1B ON APR 25 *	3 130 000R	1982
1983	609 AT 20:20 CST ON JUN 28	604 ON JUN 29	38.1B ON APR 26	6 200 000	1983
1984	286 ON JUN 10	281 ON JUN 10	43.3B ON APR 17	3 930 000	1984
1985	362 AT 18:00 CST ON JUN 14	362 ON JUN 10	38.9B ON APR 27	3 730 000	1985
1986	785 ON JUN 13 *	778 ON JUN 13 *	27.0B ON MAY 3	5 290 000	1986
1987	356 AT 15:30 CST ON JUL 3	352 ON JUL 3	34.6B ON APR 19	3 830 000	1987
1988	603 AT 21:30 CST ON JUN 21	603 ON JUN 25	35.3B ON MAY 12	4 560 000	1988
				4 080 000R	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

NORTH SHANNON CREEK NEAR MYRTLE - STATION NO. 05DF015

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0.026	3.14	0.033	0.036	0.004	0	0	0	---	---	0.386	1960
1961	---	---	0.753	0.083	0	0	0	0	0	0	---	---	0.103	1961
1962	---	---	0	1.42	0.881	0.352	0	0	0	0	---	---	0.303	1962
1963	---	---	0.090	0.017	0	1.12	0	0	0	0	---	---	0.151	1963
1964	---	---	0	0.888	0.007	0	0	0	0.283	0	---	---	0.114	1964
1965	---	---	0	1.48	0.333	0.018	0	0	0	0	---	---	0.225	1965
1966	---	---	2.63	7.38	0.750	0	2.87	0	0	0	---	---	1.68	1966
1967	---	---	0.005	2.66	0.188	0	0	0	0	0	---	---	0.350	1967
1968	---	---	0.140	0.017	0.004	0	0	1.28	0.228	0.001	---	---	0.212	1968
1969	---	---	0	3.83	0.066	0.073	1.00	0.001	0	0	---	---	0.812	1969
1970	---	---	0	8.23	0.848	0.052	0	0	0	0	---	---	0.889	1970
1971	---	---	0	4.20	0.013	0.058	0.024	0	0	0	---	---	0.526	1971
1972	---	---	1.47	1.15	0.130	0	0	0	0	0	---	---	0.344	1972
1973	---	---	0.058	0.002	0	0	0	0	0	0	---	---	0.008	1973
1974	---	---	0	8.17	4.36	0.186	0	0	0	0	---	---	1.57	1974
1975	---	---	0	0.457	0.101	0.081	0.130	0	0	0	---	---	0.095	1975
1976	---	---	0	2.88	0.004	0.058	0	0	0	0	---	---	0.380	1976
1977	---	---	0	0.051	0	0	0	0	0.077	0.082	---	---	0.028	1977
1978	---	---	0.108	1.05	0.099	0.883	0	0	0	0	---	---	0.281	1978
1979	---	---	0	8.82	0.883	0.091	0.028	0	0	0	---	---	0.971	1979
1980	---	---	0	0.181	0	0	0	0	0	0	---	---	0.022	1980
1981	---	---	0.074	0.005	0.020	0.003	0	0	0	0	---	---	0.013	1981
1982	---	---	0.194	0.888	0.001	0	0	0	0	0	---	---	0.108	1982
1983	---	---	0.121	1.51	0.005	0	0	0	0	0	---	---	0.201	1983
1984	---	---	0.047	0.028	0.001	0	0	0	0	0	---	---	0.009	1984
1985	---	---	1.01	0.058	0	0	0	1.18	0.038	0.020	---	---	0.288	1985
1986	---	---	1.35	0.663	3.39	0.001	0.011	0.003	0	0	---	---	0.575	1986
1987	---	---	0.008	2.27	0	0	0	0	0	0	---	---	0.278	1987
1988	---	---	0.033	0.068	0.013	0.002	0	0	0	0	---	---	0.014	1988
MEAN	---	---	0.275	1.97	0.415	0.102	0.133	0.065	0.020	0.004	---	---	0.372	MEAN

LOCATION - LAT 49 20 34 N LONG 97 50 33 W
DRAINAGE AREA, 179 km²
NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "SHANNON CREEK TRIBUTARY NEAR MYRTLE"

NORTH SHANNON CREEK NEAR MYRTLE - STATION NO 05DF015

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	18.3 ON APR 8	08 ON MAR 1 *	8 390	1980
1981	---	5.83 B ON MAR 24	08 ON MAR 1	2 170	1981
1982	---	14.7 B ON APR 20	08 ON MAR 1	8 410	1982
1983	---	17.2 ON JUN 6	0 ON MAR 1	3 200	1983
1984	---	3.62 B ON APR 9	08 ON MAR 1	2 410	1984
1985	---	7.45 B ON APR 11	08 ON MAR 1	4 770	1985
1986	---	78.2 B ON APR 1	08 ON MAR 1	35 000	1986
1987	---	18.3 B ON APR 21	08 ON MAR 1	7 400	1987
1988	---	13.1 ON AUG 25	08 ON MAR 1	4 480	1988
1989	---	43.8 B ON APR 10	08 ON MAR 1	13 000	1989
1970	---	43.8 ON APR 18	08 ON MAR 1	18 900	1970
1971	---	58.2 B ON APR 10	08 ON MAR 1	11 200	1971
1972	---	8.98 B ON MAR 19	08 ON MAR 1	7 270	1972
1973	---	0.1908 ON MAR 22	08 ON MAR 1	160	1973
1974	---	81.0 ON APR 17 *	08 ON MAR 1	33 300	1974
1975	---	3.40 ON APR 15	08 ON MAR 1	2 010	1975
1976	---	34.5 B ON APR 4	08 ON MAR 1	7 820	1976
1977	1.18 AT 16:50 CST ON SEP 29	1.05 ON SEP 29	08 ON MAR 1	549	1977
1978	3.94 AT 05:20 CST ON JUN 6	3.82 ON JUN 6	0 ON JUL 2	5 530	1978
1979	---	84.8 B ON APR 20	08 ON MAR 1	20 500	1979
1980	1.21 B AT 11:05 CST ON APR 8	1.14 B ON APR 8	08 ON MAR 1	470	1980
1981	---	0.2008 ON MAR 15	08 ON MAR 1	270	1981
1982	3.05 B AT 08:14 CST ON APR 13	2.46 B ON MAR 30	08 ON MAR 1	2 300	1982
1983	10.8 B AT 21:19 CST ON APR 5	8.97 B ON APR 5	08 ON MAR 1	4 250	1983
1984	0.7468 AT 07:53 CST ON MAR 29	0.5048 ON MAR 29	08 ON MAR 1	196	1984
1985	25.4 AT 13:14 CST ON AUG 18	13.1 ON AUG 18	08 ON MAR 1	6 120	1985
1986	84.4 AT 07:47 CST ON MAY 12 *	33.0 ON MAY 12	08 ON MAR 1	14 300	1986
1987	---	---	08 ON MAR 1	---	1987
1988	---	0.8828 ON APR 3	08 ON MAR 1	288	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		7 950	MEAN

OAK CREEK NEAR CYPRESS RIVER - STATION NO. 05NG028

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1975	---	---	0 R	0.828R	1.02 R	0.170R	0.004R	0 R	0 R	0 R	---	---	0.251R	1975
1976	---	---	0 R	9.77 R	0.594R	0.068R	0.022R	0 R	0 R	0 R	---	---	1.28 R	1976
1977	---	---	0 R	0 R	0.071R	0.002R	0 R	0 R	0 R	0 R	---	---	0.009R	1977
1978	---	---	0.014R	1.32 R	0.213R	0.091R	0.021R	0 R	0 R	0 R	---	---	0.205R	1978
1979	---	---	0 R	5.22 R	2.27 R	0.243R	0.014R	0 R	0 R	0 R	---	---	0.857R	1979
1980	---	---	0 R	0.230R	0.056R	0 R	0 R	0 R	0 R	0 R	---	---	0.035R	1980
1981	---	---	0.078R	0.013R	0.027R	0.026R	0.010R	0.038R	0.050R	0.033R	---	---	0.034R	1981
1982	---	---	0.124R	1.18 R	0.171R	0.073R	0.022R	0.004R	0 R	0 R	---	---	0.198R	1982
1983	---	---	0.186R	2.46 R	0.257R	0.092R	0.009R	0 R	0 R	0 R	---	---	0.372R	1983
1984	---	---	0.085R	0.076R	0.144R	0.068R	0.017R	0 R	0 R	0.001R	---	---	0.050R	1984
1985	---	---	1.62 R	0.483R	0.039R	0.003R	0.001R	0.024R	0.001R	0.002R	---	---	0.244R	1985
MEAN	---	---	0.174R	1.88 R	0.442R	0.078R	0.011R	0.008R	0.008R	0.003R	---	---	0.330R	MEAN

LOCATION - LAT 49 28 40 N DRAINAGE AREA, 434 km^2
LONG 99 09 20 W NATURAL FLOW

R - REVISED SINCE JAN 01 1987

REMARKS - PRIOR TO 1987 PUBLISHED AS 05MM012 "OXTAIL CREEK"

OAK CREEK NEAR CYPRESS RIVER - STATION NO. 05NG028

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1975	---	3.40 R ON MAY 3	ORB ON MAR 1 *	5 320R	1975
1976	---	28.0 RB ON APR 8 *	ORB ON MAR 1	27 100R	1976
1977	---	0.258R ON MAY 21	ORB ON MAR 1	197R	1977
1978	---	3.99 RB ON APR 7	ORB ON MAR 1	4 330R	1978
1979	---	28.0 R ON APR 22	ORB ON MAR 1	20 200R	1979
1980	---	0.746RB ON APR 6	ORB ON MAR 1	746R	1980
1981	---	0.326RB ON MAR 16	ORB ON MAR 4	726R	1981
1982	---	2.06 RB ON APR 16	ORB ON MAR 1	4 150R	1982
1983	---	7.12 RB ON APR 5	ORB ON MAR 1	7 870R	1983
1984	---	0.784RB ON MAR 26	ORB ON MAR 1	1 070R	1984
1985	---	8.23 RB ON MAR 23	ORB ON MAR 1	5 160R	1985
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1988		5 890R	MEAN

OAK CREEK NEAR GLENBORO - STATION NO. 05MG027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	1.18 R	1.83 R	1.73 R	0.172R	0.268R	0.027R	0.003R	0.004R	---	---	0.618R	1986
1987	---	---	0.288	2.43	0.066	0.002	0	0.334	0.003	0.081	---	---	0.384	1987
1988	---	---	0.049	0.087	0.037	0.001	0	0	0	0	---	---	0.028	1988
MEAN	---	---	0.512R	1.35 R	0.828R	0.058R	0.068R	0.120R	0.002R	0.022R	---	---	0.346R	MEAN

LOCATION - LAT 49 29 23 N
LONG 98 10 18 W
DRAINAGE AREA, 484 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

REMARKS - PRIOR TO 1987 PUBLISHED AS 05MH014 "OXTAIL CREEK"

OAK CREEK NEAR GLENBORO - STATION NO. 05MG027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	---	4.02 R ON MAR 28	ORD ON MAR 1 *	13 000R	1986
1987	8.80 AT 05:43 CST ON APR 6 *	5.65 ON APR 6 *	OD ON MAR 1	6 340	1987
1988	1.67 AT 13:01 CST ON MAY 2	0.852 ON MAY 21	OD ON MAR 1	591	1988
				7 310R	MEAN

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

OAK CREEK NEAR STOCKTON - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.817	1.53	1.17	0.288	0.014	0	B	0	---	---	---	1981
1982	---	---	B	3.73	0.746	1.63	0.156	0.378	0.042	0.005	---	---	---	1982
1983	---	---	0.628	0.888	0.898	0.307	0.126	0.130	B.078	0.011	---	---	---	1983
1984	---	---	B	0.981	0.817	0.186	0.056	0.012	0.010	0.008	---	---	---	1984
1985	---	---	0	3.73	1.63	0.578	0.887	0.076	0.118	0.113	---	---	---	1985
1986	---	---	2.75	2.90	1.37	0.416	0.344	0.076	0.021	0.018	---	---	---	1986
1987	---	---	0.031	0.778	0.937	0.310	0.089	0.004	0.008	0.008	---	---	---	1987
1988	---	---	0.280	0.181	0.051	0.010	0.044	0.207	0.385	0.312	---	---	---	1988
1989	---	---	0	10.4	2.69	0.388	0.485	0.307	0.280	0.193	---	---	---	1989
1970	---	---	0.005	4.83	7.91	1.81	0.755	0.407	0.173	0.080	---	---	---	1970
1971	---	---	0	1.83	1.81	1.10	0.785	0.219	0.078	0.074	---	---	---	1971
1972	---	---	2.02	3.05	1.25	0.447	0.198	0.198	0.218	0.234	---	---	---	1972
1973	---	---	0.028	0.074	0.140	0.104	0.180	0.141	0.048	0.031	0.018	0.004	---	1973
1974	0.001	0	0	14.7	5.72	2.23	0.481	0.288	0.131	0.038	0.042	0.019	2.22	1974
1975	0.017	0.018	0.013	1.85	2.31	0.808	0.125	0.123	0.225	0.189	0.075	0.019	0.474	1975
1976	0.018	0.015	0.010	16.6	3.84	0.438	0.039	0.010	0.008	0.014	0.015	0.014	1.91	1976
1977	0.008	0.003	0.003	0.015	0.021	0.001	0.008	0.002	0.008	0.005	0.007	0.003	0.007	1977
1978	0.008	0.005	0.186	2.59	0.488	0.107	0.085	0.012	0	0.001	0.001	0.002	0.287	1978
1979	0.002	0.002	0.002	3.83	5.67	0.957	0.324	0.147	0.038	0.022	0.018	0.015	0.923	1979
1980	0.011	0.013	0.006	0.252	0.012	0.004	0.013	0.118	0.001	0.004	0.007	0.002	0.037	1980
1981	0.001	0.257	0.028	0.003	0.003	0.004	0.001	0.645	0.280	0.018	0.022	0.014	0.106	1981
1982	0.005	0.004	0.885	2.30	0.801	0.188	0.234	0.035	0	0.002	0.005	0.007	0.372	1982
1983	0.005	0.007	1.20	4.67	1.33	0.341	0.152	0.014	0.001	0.001	0.001	0.002	0.542	1983
1984	0.001	0.001	0.100	0.011	0.001	0.003	0.001	B	0	0	0	0	0.010	1984
1985	0	0	2.21	1.53	0.180	0.010	0.007	0.003	0.001	0.007	0.002	0.001	0.340	1985
1986	0.001	0.001	1.52	2.27	3.80	0.517	0.447	0.223	0.028	0.007	0.004	0.004	0.733	1986
1987	0.003	0.002	1.17	1.80	0.859	0.208	0.043	0.132	0.002	0.002	0.001	0.001	0.362	1987
1988	0.001	0.001	0.008	0.020	0.003	0.003	0.001	0	0	0	0	0	0.003	1988
MEAN	0.005	0.022	0.500	3.20	1.77	0.477	0.207	0.130	0.077	0.049	0.014	0.007	0.562	MEAN

LOCATION - LAT 49 33 44 N
LONG 98 30 48 W
DRAINAGE AREA, 1 080 km²
NATURAL FLOW

OAK CREEK NEAR STOCKTON - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1951	---	5.84 B ON MAR 28	0 B ON MAR 1 *	---	1951
1952	---	26.8 ON APR 17	0 B ON MAR 1	---	1952
1953	---	7.42 B ON MAR 23	0 B ON MAR 1	---	1953
1954	---	2.75 B ON APR 6	0 B ON MAR 1	---	1954
1955	---	23.6 B ON APR 11	0 B ON MAR 1	---	1955
1956	---	13.8 B ON MAR 17	0 B ON MAR 1	---	1956
1957	---	1.47 ON APR 27	0 B ON MAR 1	---	1957
1958	---	1.29 ON AUG 25	0 ON AUG 10	---	1958
1959	---	37.9 ON APR 11	0 B ON MAR 1	---	1959
1970	---	15.7 ON APR 25	0 B ON MAR 1	---	1970
1971	---	6.06 B ON APR 6	0 B ON MAR 1	---	1971
1972	---	12.0 B ON MAR 16	0 B ON MAR 1	---	1972
1973	1.27 AT 00:29 CST ON JUL 26	0.926 ON JUL 26	0 B ON MAR 1	---	1973
1974	58.6 B AT 18:17 CST ON APR 18 *	43.0 B ON APR 18 *	0 B ON JAN 15	70 000	1974
1975	8.13 AT 02:48 CST ON APR 29	7.85 ON APR 29	0.0108 ON DEC 29	14 800	1975
1976	---	40.5 ON APR 6	0.0028 ON APR 1	80 500	1976
1977	0.804 AT 14:59 CST ON NOV 16	0.144 ON MAY 6	0 ON MAY 31	218	1977
1978	10.5 B AT 05:43 CST ON APR 6	9.63 B ON APR 6	0 ON SEP 3	9 050	1978
1979	29.8 B AT 16:56 CST ON APR 21	21.7 B ON APR 21	0.0028 ON JAN 1	29 100	1979
1980	4.02 AT 03:27 CST ON AUG 21	2.38 ON AUG 21	0 ON MAY 28	1 180	1980
1981	11.1 AT 06:59 CST ON AUG 31	7.86 ON AUG 31	0 B ON JAN 25	3 330	1981
1982	17.8 B AT 15:44 CST ON MAR 30	13.7 B ON MAR 30	0 ON SEP 2	11 700	1982
1983	18.2 B AT 19:56 CST ON MAR 31	17.6 B ON MAR 31	0.001 ON AUG 30	20 300	1983
1984	0.9218 AT 19:46 CST ON MAR 24	0.6858 ON MAR 25	0 ON APR 23	313	1984
1985	13.9 B AT 19:13 CST ON MAR 21	11.9 B ON MAR 21	0 B ON JAN 1	10 700	1985
1986	13.0 AT 23:49 CST ON MAY 5	12.5 ON MAY 6	0.0018 ON JAN 1	23 100	1986
1987	11.6 B AT 23:13 CST ON MAR 23	8.82 B ON MAR 24	0 ON SEP 28	11 400	1987
1988	0.2328 AT 20:41 CST ON APR 1	0.1698 ON APR 2	0 ON JUL 28	95.1	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		17 700	MEAN

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.183	0.048	0.018	0	0	0	0	---	---	---	1965
1966	---	---	0.006	0.169	0.342	0.031	0.006	0	0	0	---	---	---	1966
1967	---	---	0	1.97	1.05	0.074	0.006	0	0	0	---	---	---	1967
1968	---	---	0.134	0.089	0.002	0	0	0	0	0	---	---	---	1968
1969	0	0	0	0.805	0.212	0.022	0.029	0.002	0	0.001	0	0	0.088	1969
1970	0	0	0	0.338	0.454	0.096	0.037	0.001	0.011	0.008	0.005	0.002	0.080	1970
1971	0	0	0	0.280	0.224	0.325	0.260	0.054	0.003	0.030	0.006	0	0.098	1971
1972	0	0	0.001	1.20	1.15	0.337	0.032	0.001	0	0	0	0	0.226	1972
1973	0	0	0.015	0.002	0.001	0.002	0	0	0	0	0	0	0.002	1973
1974	0	0	0	1.16	0.836	0.321	0.131	0.003	0	0	0	0	0.213	1974
1975	0	0	0	0.414	0.708	0.280	0.184	0.134	0.282	0.348	0.226	0.084	0.222	1975
1976	0.032	0.011	0.002	3.97	1.63	0.333	0.289	0.081	0.010	0.004	0.001	0	0.518	1976
1977	0	0	0.005	0.023	0.010	0	0	0	0	0	0	0	0.003	1977
1978	0	0	0.001	0.180	0.021	0.005	0	0	0	0	0	0	0.018	1978
1979	0	0	0	1.19	1.74	0.575	0.216	0.150	0	0	0	0	0.324	1979
1980	0	0	0	0.029	0	0	0	0	0.001	0.001	0.001	0	0.003	1980
1981	0	0	0.005	0.008	0.010	0.008	0.001	0	0	0	0	0	0.003	1981
1982	0	0	0	0.054	0	0	0.223	0.023	0	0	0.001	0	0.028	1982
1983	0	0	0	0.780	0.232	0	0	0	0	0	0	0	0.085	1983
1984	0	0	0	0	0	0.013	0	0	0	0	0	0	0.001	1984
1985	0	0	0.546	0.267	0.008	0	0	0.048	0.032	0.007	0.001	0	0.034	1985
1986	0	0	0.102	2.32	0.884	0.116	0.030	0.082	0	0	0	0	0.283	1986
1987	0	0	0.013	1.81	0.204	0.034	0.012	0.006	0	0	---	---	---	1987
1988	---	---	0.007	0.072	0.063	0.004	0	0	0	0	---	---	---	1988
MEAN	0.002	0.001	0.014	0.723	0.409	0.108	0.059	0.024	0.015	0.017	0.014	0.005	0.124	MEAN

LOCATION - LAT 50 26 33 N DRAINAGE AREA, 372 km^2
LONG 100 35 16 W NATURAL FLOW

OAK RIVER AT SHOAL LAKE - STATION NO. 05MG006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	0.7788 ON APR 14	0B ON MAR 1 *	---	1965
1966	---	1.04 ON MAY 3	0B ON MAR 1	---	1966
1967	---	6.51 ON APR 26	0B ON MAR 1	---	1967
1968	---	1.37 B ON MAR 28	0B ON MAR 1	---	1968
1969	3.03 B AT 21:15 CST ON APR 10	2.68 ON APR 11	0B ON JAN 1	2 800	1969
1970	1.38 AT 02:57 CST ON APR 30	1.26 ON APR 30	0B ON JAN 1	2 510	1970
1971	1.23 AT 06:37 CST ON JUN 10	1.06 ON JUN 10	0B ON JAN 1	3 080	1971
1972	3.40 AT 01:43 CST ON APR 17	3.26 ON APR 17	0B ON JAN 1	7 150	1972
1973	---	0.0998 ON MAR 19	0B ON JAN 1	55.5	1973
1974	---	4.26 B ON APR 21	0B ON JAN 1	5 720	1974
1975	2.02 AT 08:11 CST ON MAY 1	1.97 ON MAY 1	0B ON JAN 1	7 000	1975
1976	8.87 AT 17:51 CST ON APR 18 *	7.78 ON APR 14 *	0B ON MAR 30	18 400	1976
1977	0.153 AT 03:31 CST ON APR 8	0.088 ON APR 8	0B ON JAN 1	103	1977
1978	---	0.4088 ON APR 7	0B ON JAN 1	583	1978
1979	4.23 AT 00:00 CST ON APR 25	4.14 B ON APR 24	0B ON JAN 1	10 200	1979
1980	---	0.3108 ON APR 8	0B ON JAN 1	78.7	1980
1981	---	0.014 ON JUN 26	0B ON JAN 1	82.2	1981
1982	---	0.586 ON JUL 29	0B ON JAN 1	802	1982
1983	2.77 AT 12:00 CST ON APR 24	2.76 ON APR 24	0B ON JAN 1	2 670	1983
1984	0.139 AT 07:26 CST ON JUN 23	0.081 ON JUN 23	0B ON JAN 1	34.8	1984
1985	2.45 B AT 22:10 CST ON APR 8	1.15 B ON APR 9	0B ON JAN 1	1 080	1985
1986	8.38 AT 19:07 CST ON APR 3	4.54 B ON APR 2	0B ON JAN 1	9 240	1986
1987	8.87 B AT 18:03 CST ON APR 6	4.51 ON APR 8	0B ON JAN 1	---	1987
1988	---	---	---	---	1988
				3 920	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	1.50	2.30	1.19	0.094	0.015	0.014	0.014	0.018	---	---	---	1965
1967	---	---	0	6.01	2.81	0.492	0.008	0.002	0	0.007	---	---	---	1967
1968	---	---	2.48	0.695	0.037	0	0	0	0	0	---	---	---	1968
1969	0	0	0	16.4	1.14	0.250	0.822	0.339	0.046	0.102	0.203	0.030	1.80	1969
1970	0.004	0.003	0.003	6.89	3.37	0.504	0.172	0.028	0.007	0.022	0.043	0.003	0.902	1970
1971	0	0	0.015	1.77	0.310	3.84	1.73	0.303	0.053	0.189	0.044	0.014	0.588	1971
1972	0.001	0.001	1.71	6.18	2.65	0.595	0.128	0.018	0.001	0.004	0.003	0	0.864	1972
1973	0	0	0.348	0.054	0.048	0.051	0.008	0.002	0	0.035	0.011	0.002	0.047	1973
1974	0	0	0	8.63	2.54	0.595	0.011	0.008	0.024	0.015	0.012	0.003	1.06	1974
1975	0.002	0.006	0.007	7.78	3.67	0.851	0.200	0.203	0.388	0.321	0.305	0.081	1.16	1975
1976	0.057	0.047	0.052	21.3	3.95	1.26	0.400	0.047	0.015	0.005	0.009	0.001	2.24	1976
1977	0.003	0.004	0.041	0.098	0.114	0.050	0.045	0.003	0.002	0.006	0.012	0.003	0.033	1977
1978	0.003	0.003	0.585	2.14	0.240	0.034	0.006	0.006	0	0.002	0.003	0.003	0.258	1978
1979	0.003	0.003	0.003	8.19	3.25	0.879	0.214	0.018	0.001	0.001	0.001	0.001	1.04	1979
1980	0.001	0.001	0.002	0.433	0.007	0.001	0	0.001	0	0.002	0.002	0.001	0.037	1980
1981	0.001	0.012	0.138	0.032	0.004	0.007	0.006	0.006	0.012	0.001	0.001	0.002	0.019	1981
1982	0	0	0.386	2.61	0.134	0.010	0.004	0	0	0.006	0.002	0	0.258	1982
1983	0	0	0.003	8.87	1.11	0.048	0.042	0.005	0.008	0.002	0.002	0.002	0.818	1983
MEAN	0.005	0.005	0.407	5.73	1.48	0.553	0.217	0.058	0.033	0.040	0.048	0.010	0.741	MEAN

LOCATION - LAT 49 55 30 N LONG 100 27 48 W DRAINAGE AREA, 1 650 km^2 REGULATED

OAK RIVER NEAR BRADWARDINE - STATION NO. 05MG010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	10.2 ON APR 1	0 B ON MAR 1 *	---	1965
1967	19.0 AT 14:00 CST ON APR 15	16.4 ON APR 15	0 B ON MAR 1	---	1967
1968	---	12.8 B ON MAR 28	0 B ON MAR 1	---	1968
1969	---	87.5 B ON APR 12 *	0 B ON JAN 1	50 800	1969
1970	---	16.5 B ON APR 12	0 B ON DEC 20	28 400	1970
1971	27.5 AT 18:00 CST ON JUN 15	22.9 ON JUN 15	0 B ON JAN 1	21 700	1971
1972	---	15.7 ON APR 16	0 ON AUG 31	30 500	1972
1973	---	1.13 B ON MAR 13	0 B ON JAN 1	1 480	1973
1974	---	39.6 B ON APR 18	0 B ON JAN 11	33 500	1974
1975	---	34.5 A ON APR 29	0.0018 ON JAN 1	36 500	1975
1976	46.7 AT 19:22 CST ON APR 10 *	45.3 ON APR 10	0.0018 ON NOV 30	70 700	1976
1977	0.857 AT 10:00 CST ON MAY 28	0.348 ON MAY 23	0 ON AUG 17	1 030	1977
1978	10.3 AT 03:28 CST ON APR 7	7.70 ON APR 7	0 ON JUL 14	8 130	1978
1979	31.5 AT 05:40 CST ON APR 22	30.8 ON APR 21	0 ON AUG 25	32 800	1979
1980	---	1.89 B ON APR 7	0 ON JUN 10	1 170	1980
1981	0.625 AT 11:33 CST ON JUL 7	0.2868 ON MAR 21	0 B ON FEB 7	587	1981
1982	11.7 B AT 03:44 CST ON APR 13	10.4 B ON APR 13	0 B ON JAN 1	8 150	1982
1983	26.0 B AT 04:25 CST ON APR 10	23.5 B ON APR 10	0 B ON JAN 1	25 800	1983
				23 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	0.063	0.140	0.023	0.004	0	0	0	---	---	---	1969
1970	---	---	0	0.062	0.854	0.908	0.100	0.023	0.025	0.024	---	---	---	1970
1971	---	---	0	0.020	0.083	0.126	0.702	0.375	0.086	0.023	---	---	---	1971
1972	0	0	0	0.512	2.14	0.819	0.193	0.029	0	0	0	0	0.305	1972
1973	0	0	0.001	0.014	0.001	0	0	0	0	0	0	0	0.001	1973
1974	0	0	0	0.061	0.555	0.470	0.085	0.011	0	0	0	0	0.088	1974
1975	0	0	0	0.038	0.432	0.548	0.121	0.064	0.103	0.201	0.254	0.152	0.160	1975
1976	0.082	0.084	0.082	3.42	3.03	0.721	0.274	0.136	0.085	0.035	0.005	0	0.577	1976
MEAN	0.016	0.013	0.008	0.521	0.777	0.461	0.178	0.060	0.034	0.035	0.052	0.030	0.228	MEAN

LOCATION - LAT 50 19 35 N LONG 100 36 00 W DRAINAGE AREA, 443 km² REGULATED

REMARKS - DAILY DISCHARGES PRIOR TO 1973 HAVE NOT BEEN PUBLISHED

OAK RIVER NEAR OUTLET OF RAVEN LAKE - STATION NO. 05MG012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	0.280 ON APR 15	OB ON MAR 1 *	---	1969
1970	---	1.10 ON MAY 15	OB ON MAR 1	---	1970
1971	---	0.847 ON JUL 19	OB ON MAR 1	---	1971
1972	---	2.45 ON MAY 5	OB ON JAN 1	9 650	1972
1973	---	0.026 ON APR 14	OB ON JAN 1	44.3	1973
1974	---	0.838 ON MAY 23	OB ON JAN 1	3 020	1974
1975	---	0.742 ON MAY 26	OB ON JAN 1	5 050	1975
1976	---	7.42 ON APR 24 *	OB ON NOV 22	18 200	1976
				7 190	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.307	0.029	0	0	0	0	0	0	---	---	---	1959
1960	---	---	0	3.38	0.334	0.094	0	0	0	0	---	---	---	1960
1961	---	---	0	0.117	0.008	0	0	0	0	0	---	---	---	1961
1962	---	---	0	1.01	0.028	0	0	0.007	0.002	0	---	---	---	1962
1963	---	---	0.918	0.475	0.023	0.885	0.106	0	0	0	---	---	---	1963
1964	---	---	0	1.56	0.287	0.008	0	0	0.004	0.001	---	---	---	1964
1965	---	---	0	3.39	0.072	0.038	0.112	0.003	0.008	0.007	---	---	---	1965
1966	---	---	0.835	0.855	0.376	0.006	0	0	0	0	---	---	---	1966
1967	---	---	0	4.84	1.21	0.088	0	0	0	0	---	---	---	1967
1968	---	---	0.833	0.486	0.008	0.001	0	0.001	0	0	---	---	---	1968
1969	0	0	0	7.40	0.321	0.043	0.288	0.020	0.005	0.008	0.004	0	0.868	1969
1970	0	0	0	2.61	2.06	0.392	0.263	0.024	0.019	0.064	0.058	0	0.457	1970
1971	0	0	0.002	0.570	0.163	2.41	1.20	0.288	0.089	0.085	0.026	0.003	0.403	1971
1972	0	0	0.210	3.28	2.12	0.795	0.100	0.007	0	0	0	0	0.541	1972
1973	0	0	0.093	0.011	0.012	0.004	0	0	0	0	0	0	0.010	1973
1974	0	0	0	4.76	1.27	0.443	0.031	0	0	0	0	0	0.538	1974
1975	0	0	0	2.28	1.31	0.462	0.101	0.204	0.181	0.171	0.205	0.053	0.413	1975
1976	0.028	0.023	0.028	8.08	2.82	0.840	0.246	0.041	0.008	0	0	0	1.08	1976
1977	0	0	0.013	0.025	0.052	0.015	0.007	0	0.001	0.001	0.001	0.001	0.010	1977
1978	0.001	0.001	0.054	0.783	0.044	0.001	0	0	0	0	0	0	0.071	1978
1979	0	0	0	4.83	1.45	0.774	0.261	0.054	0.002	0.001	0	0	0.613	1979
1980	0	0	0	0.144	0.007	0.003	0	0	0	0	0	0	0.013	1980
1981	0	0.001	0.078	0.022	0	0.004	0.001	0	0	0	0	0	0.009	1981
1982	0	0	0.038	0.804	0.044	0.001	0	0	0	0	0	0	0.081	1982
1984	0	0	0.002	0	0	0.015	0	0	0	0	0	0	0.001	1984
1985	0	0	0.104	0.833	0.005	0	0	0	0	0	0	0	0.078	1985
1986	0	0	0.640	3.25	2.19	0.218	0.076	0.001	0	0	0	0	0.532	1986
1987	0	0	0.018	4.07	0.600	0.153	0.015	0	0	0	---	---	---	1987
1988	---	---	0.001	0.158	0.010	0.003	0	0	0	0	---	---	---	1988
MEAN	0.002	0.001	0.140	2.11	0.580	0.285	0.086	0.023	0.011	0.012	0.017	0.003	0.325	MEAN

LOCATION - LAT 50 01 30 N LONG 100 23 35 W DRAINAGE AREA, 1 180 km² REGULATED

OAK RIVER NEAR RIVERS - STATION NO. 05MG004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.04 ON MAR 28	0.0 ON MAR 1 *	---	1959
1960	---	13.3 ON APR 13	0.0 ON MAR 1	---	1960
1961	---	0.585 ON APR 10	0.0 ON MAR 1	---	1961
1962	---	5.82 ON APR 19	0.0 ON MAR 1	---	1962
1963	---	6.71 ON JUN 10	0.0 ON MAR 1	---	1963
1964	---	6.07 ON APR 15	0.0 ON MAR 1	---	1964
1965	---	12.7 ON APR 16	0.0 ON MAR 1	---	1965
1966	---	4.64 B ON APR 2	0.0 ON MAR 1	---	1966
1967	12.7 AT 18:00 CST ON APR 14	11.6 ON APR 14	0.0 ON MAR 1	---	1967
1968	---	7.93 B ON MAR 27	0.0 ON MAR 1	---	1968
1969	---	35.1 A ON APR 12 *	0.0 ON JAN 1	21 100	1969
1970	9.09 AT 08:51 CST ON APR 29	8.01 ON APR 30	0.0 ON JAN 1	14 400	1970
1971	7.59 AT 13:15 CST ON JUN 15	6.37 ON JUN 15	0.0 ON JAN 1	12 700	1971
1972	12.1 AT 15:20 CST ON APR 15	10.3 ON APR 15	0.0 ON JAN 14	17 100	1972
1973	---	0.2758 ON MAR 13	0.0 ON JAN 1	320	1973
1974	---	19.3 ON APR 18	0.0 ON JAN 1	15 900	1974
1975	12.2 AT 01:00 CST ON APR 29	10.3 ON APR 29	0.0 ON JAN 1	13 000	1975
1976	---	23.4 B ON APR 10	0 ON SEP 17	34 300	1976
1977	0.515 AT 08:31 CST ON MAY 21	0.340 ON MAY 21	0.0 ON JAN 1	310	1977
1978	4.02 B AT 20:20 CST ON APR 6	3.08 B ON APR 6	0.0 ON FEB 25	2 250	1978
1979	41.0 AT 11:58 CST ON APR 21 *	33.7 ON APR 21	0.0 ON JAN 1	18 300	1979
1980	---	0.5878 ON APR 7	0.0 ON JAN 1	400	1980
1981	0.554 AT 11:07 CST ON MAR 19	0.289 ON MAR 19	0.0 ON JAN 1	281	1981
1982	4.37 AT 15:24 CST ON APR 14	2.84 ON APR 14	0.0 ON JAN 1	2 550	1982
1984	0.289 AT 11:09 CST ON JUN 24	0.183 ON JUN 24	0.0 ON JAN 1	45.2	1984
1985	3.39 B AT 23:11 CST ON APR 5	2.43 B ON APR 6	0.0 ON JAN 1	2 450	1985
1986	14.6 AT 18:42 CST ON APR 1	11.7 ON APR 1	0.0 ON JAN 1	15 800	1986
1987	18.1 AT 17:09 CST ON APR 8	15.4 ON APR 8	0.0 ON JAN 1	---	1987
1988	---	---	---	---	1988
				10 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)

B - ICE CONDITIONS

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

OCHRE RIVER AT OCHRE RIVER - STATION NO. 08LJ005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	4.40	3.82	2.88	---	1912
1913	2.18	0.905	0.057	9.51	3.00	2.34	3.06	0.477	0.205	0.387	0.390	0.142	2.36	1913
1914	0.057	0	0.028	4.25	6.49	0.496	0.397	0.049	0.087	0.248	0.183	0.030	1.50	1914
1915	0	0	0.057	1.96	1.27	1.26	1.11	0.239	0.622	1.03	0.635	0.113	0.939	1915
1916	---	---	---	3.66	3.88	9.97	2.05	0.306	0.176	0.600	0.850	---	---	1916
1917	---	---	---	1.14	4.73	4.07	2.17	0.313	0.257	0.308	0.483	---	---	1917
1918	---	---	1.56	3.10	3.35	1.54	0.718	0.533	0.183	0.388	0.878	---	1.42	1918
1919	---	---	---	---	1.92	0.343	0.626	0.087	0.222	0.397	---	---	---	1919
1920	---	---	---	---	---	8.32	1.41	0.382	0.087	0.146	0.278	---	---	1920
1921	---	---	---	---	---	6.77	1.61	---	---	---	---	---	---	1921
1922	---	---	---	10.2	6.44	1.62	1.25	1.05	0.425	---	---	---	---	1922
1923	---	---	---	---	10.1	7.35	1.73	0.507	0.173	0.427	---	---	---	1923
1924	---	---	---	---	5.83	3.33	1.61	0.641	0.215	1.82	---	---	---	1924
1925	---	---	---	7.81	2.90	16.6	3.57	2.33	1.71	2.38	---	---	---	1925
1926	---	---	---	---	1.70	1.21	0.467	0.217	0.842	2.76	---	---	---	1926
1927	---	---	---	---	13.0	4.32	3.79	2.06	0.796	0.880	---	---	---	1927
1928	---	---	---	---	2.59	8.34	2.02	0.801	0.230	0.333	---	---	---	1928
1929	---	---	---	---	2.07	1.77	0.436	0.088	0.094	0.174	---	---	---	1929
1930	---	---	---	---	---	3.57	0.999	0.475	0.076	0.076	---	---	---	1930
1948	---	---	---	---	---	7.26	0.860	2.83	1.46	0.388	0.294	---	---	1948
1949	---	---	---	---	---	2.17	2.42	3.82	0.707	0.249	0.717	---	---	1949
1950	---	---	---	---	2.40	14.6	4.88	4.10	0.800	0.597	0.732	---	---	1950
1951	---	---	---	---	6.82	4.84	1.67	0.656	0.554	0.968	1.60	---	---	1951
1952	---	---	---	0.031	6.82	1.76	0.752	0.337	0.200	1.77	0.720	0.361	---	1952
1953	---	---	---	---	3.83	11.7	14.4	4.07	1.57	1.42	1.22	0.888	---	1953
1954	---	---	---	---	2.72	5.85	8.59	3.51	0.714	4.31	2.85	1.10	---	1954
1955	---	---	---	---	6.78	7.80	10.4	1.62	0.149	0.198	0.275	---	---	1955
1956	---	---	---	0.375	2.25	7.83	8.37	5.82	0.562	0.477	0.621	---	---	1956
1957	---	---	---	0.471	10.2	4.37	3.34	0.723	0.449	0.632	0.382	---	---	1957
1958	---	---	---	0.352	3.36	1.36	0.591	1.27	0.138	0.588	0.325	---	---	1958
1959	---	---	---	0.423	3.84	5.22	1.90	0.850	0.107	0.448	1.40	---	---	1959
1960	---	---	---	0.158	8.23	8.82	1.74	0.318	0.273	0.143	0.378	---	---	1960
1961	---	---	---	0.024	1.12	1.54	0.041	0.021	0	0.009	0.386	---	---	1961
1962	---	---	---	0.032	1.17	1.70	1.40	0.206	0.181	0.325	0.382	0.311	---	1962
1963	---	---	---	0.828	8.85	3.68	4.00	1.18	0.137	0.710	0.249	---	---	1963
1964	---	---	---	0	4.81	3.14	0.388	0.095	0.033	0.014	0.187	---	---	1964
1965	---	---	---	0	2.67	7.31	3.96	1.17	0.778	5.18	1.38	---	---	1965
1966	---	---	---	1.82	5.80	8.77	2.01	1.28	1.07	0.353	0.380	---	---	1966
1967	---	---	---	0.235	3.48	10.3	1.15	0.232	0.173	0.020	0.254	---	---	1967
1968	---	---	---	0.401	2.39	2.11	1.10	2.31	2.26	1.13	0.787	---	---	1968
1969	---	---	---	0.281	5.04	2.21	9.80	5.19	0.413	0.512	0.764	---	---	1969
1970	---	---	---	0.224	2.87	18.6	2.56	1.65	0.211	0.641	0.898	---	---	1970
1971	---	---	---	0.187	7.32	1.95	12.0	2.14	0.631	0.254	1.59	---	---	1971
1972	---	---	---	0.520	7.34	4.26	0.831	0.225	0.207	0.135	0.188	---	---	1972
1973	---	---	---	0.513	0.822	0.817	2.04	0.355	0.875	1.48	1.59	---	---	1973
1974	---	---	---	0.014	10.2	15.1	2.30	0.596	0.284	0.616	1.35	---	---	1974
1975	---	---	---	0.212	2.98	4.75	4.19	0.994	4.32	18.9	4.19	---	---	1975
1976	---	---	---	0.616	13.0	2.42	8.61	0.885	0.286	0.105	0.300	---	---	1976
1977	---	---	---	0.285	1.13	1.26	0.599	3.75	0.742	3.44	1.86	---	---	1977
1978	---	---	---	0.488	5.82	2.33	1.24	0.644	0.189	0.889	0.817	---	---	1978
1979	---	---	---	0.400	5.97	14.2	2.88	0.503	0.228	0.293	0.388	---	---	1979
1980	---	---	---	0.227	3.08	0.555	0.197	0.308	1.14	1.03	1.04	---	---	1980
1981	---	---	---	0.405	2.33	2.67	2.62	0.304	0.379	0.354	0.676	---	---	1981
1982	---	---	---	0.038	5.51	2.18	0.705	0.301	0.210	0.177	1.51	---	---	1982
1983	---	---	---	0.116	6.49	4.51	2.21	1.57	0.175	0.310	0.192	---	---	1983
1984	---	---	---	0.543	1.70	4.19	2.61	0.378	0.030	0.148	0.892	---	---	1984
1985	---	---	---	0.719	5.38	1.89	2.19	0.620	1.88	1.30	2.55	---	---	1985
1986	---	---	---	1.82	7.82	14.8	1.08	0.815	0.416	0.401	0.782	---	---	1986
1987	---	---	---	0.900	5.09	0.752	0.271	0.249	0.136	0.205	0.647	---	---	1987
1988	---	---	---	0.162	3.17	5.32	0.401	0.131	0.068	0.101	0.181	---	---	1988
MEAN	0.748	0.302	0.406	4.87	5.36	3.42	1.45	0.600	1.01	0.884	0.880	0.744	2.05	MEAN

LOCATION - LAT 51 03 55 N DRAINAGE AREA, 342 km²
LONG 89 48 44 W NATURAL FLOW

OCHRE RIVER AT OCHRE RIVER - STATION NO. 05LJ005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)		MAXIMUM DAILY DISCHARGE (m^3/s)		MINIMUM DAILY DISCHARGE (m^3/s)		TOTAL DISCHARGE (dam^3)	YEAR
1912	---		---		---		---	1912
1913	---		25.6	ON APR 14	0.0578	ON MAR 1	50 100	1913
1914	---		30.9	ON MAY 6	0.0288	ON MAR 1	31 900	1914
1915	---		5.01	ON APR 12	0.0578	ON MAR 1	18 900	1915
1916	---		44.7	ON JUN 24	---		---	1916
1917	---		15.2	ON JUN 26	---		---	1917
1918	---		15.4	ON MAY 25	0.130	ON AUG 31	30 100	1918
1919	---		---		---		---	1919
1920	---		---		---		---	1920
1921	---		---		---		---	1921
1922	---		22.4	ON MAY 18	---		---	1922
1923	---		58.1	ON MAY 2	---		---	1923
1924	---		14.3	ON APR 28	---		---	1924
1925	---		51.3	ON JUN 24	---		---	1925
1926	---		---		---		---	1926
1927	---		54.4	ON MAY 4	---		---	1927
1928	---		44.5	ON JUN 21	---		---	1928
1929	---		---		0.071	ON AUG 27	---	1929
1930	---		17.3	ON MAY 13	---		---	1930
1948	---		44.2	ON APR 25	---		---	1948
1949	---		28.0	ON JUL 22	---		---	1949
1950	---		58.0	ON MAY 14	---		---	1950
1951	---		37.9	ON APR 29	0 B	ON APR 1 *	---	1951
1952	---		17.3	ON APR 18	0.0288	ON MAR 1	32 400	1952
1953	---		81.7	ON JUN 4	---		---	1953
1954	---		37.4	ON JUN 8	---		---	1954
1955	---		67.4	ON JUN 18	0	ON SEP 3	---	1955
1956	---		40.2	ON JUN 20	0.196	ON AUG 26	70 100	1956
1957	---		57.8	ON APR 25	0.170	ON AUG 21	53 800	1957
1958	---		8.888	ON APR 1	0	ON AUG 12	21 300	1958
1959	---		13.2	ON MAY 4	0.026	ON AUG 6	36 700	1959
1960	---		32.8	ON MAY 27	0.040	ON JUL 28	55 500	1960
1961	---		4.848	ON APR 21	0 B	ON MAR 1	8 310	1961
1962	---		5.84	ON MAY 31	0 B	ON MAR 1	14 200	1962
1963	---		20.7	ON APR 8	0 B	ON MAR 1	46 300	1963
1964	---		17.5	ON APR 26	0 B	ON MAR 1	22 200	1964
1965	---		24.1	ON JUN 3	0 B	ON MAR 1	59 200	1965
1966	---		34.0	ON MAY 6	0.003	ON SEP 17	59 800	1966
1967	---		18.0	ON MAY 7	0.011	ON SEP 7	42 100	1967
1968	---		12.0	ON JUL 2	0.0858	ON MAR 1	33 100	1968
1969	---		74.2	ON JUN 27	0.108	ON SEP 19	83 000	1969
1970	---		63.1	ON MAY 5	0.065	ON AUG 24	73 500	1970
1971	---		85.2	ON JUN 10	0.119	ON SEP 25	88 000	1971
1972	---		20.9	ON APR 26	0.062	ON SEP 11	35 600	1972
1973	---		11.3	ON JUN 21	0.031	ON JUL 24	22 400	1973
1974	---		47.0	ON APR 27	0.0148	ON MAR 1	80 600	1974
1975	328	AT 15:13 CST ON SEP 19 *	211	ON SEP 19 *	0.113	ON JUL 30	109 000	1975
1976	---		58.0	ON JUN 14	0.040	ON SEP 12	68 400	1976
1977	---		40.5	ON JUL 12	0.071	ON JUN 11	34 500	1977
1978	---		15.5 A	ON APR 27	0.102	ON AUG 13	32 300	1978
1979	48.5	AT 13:35 CST ON MAY 17	45.3	ON MAY 17	0.138	ON AUG 31	65 800	1979
1980	8.108	AT 08:22 CST ON APR 19	7.17	ON APR 21	0.087	ON JUN 26	19 900	1980
1981	12.5	AT 14:40 CST ON JUN 18	10.0	ON JUN 18	0.065	ON JUL 14	25 600	1981
1982	---		16.6 B	ON APR 15	0 B	ON MAR 1	27 900	1982
1983	32.3 B	AT 03:00 CST ON APR 25	27.6	ON APR 26	0.052A	ON OCT 19	40 900	1983
1984	16.0	AT 20:37 CST ON JUN 23	13.3	ON JUN 24	0.007	ON SEP 4	27 700	1984
1985	18.8	AT 08:28 CST ON APR 21	17.0	ON APR 21	0.0048	ON MAR 14	45 200	1985
1986	123	AT 08:18 CST ON MAY 6	108	ON MAY 6	0.114	ON SEP 9	74 100	1986
1987	16.4	AT 09:01 CST ON APR 10	14.8	ON APR 10	0.050	ON SEP 5	23 900	1987
1988	27.7	AT 04:15 CST ON MAY 3	24.1	ON MAY 3	0 B	ON MAR 1	26 200	1988
							43 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ODEI RIVER NEAR THOMPSON - STATION NO. 05TG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	10.0	6.90	4.82	8.11	65.3	101	51.7	35.5	42.9	48.1	25.4	14.3	34.6	1979
1980	6.82	3.52	2.80	27.2	49.2	34.9	37.6	65.6	102	79.8	31.7	22.5	38.7	1980
1981	17.5	12.2	8.53	6.32	103	49.9	28.4	24.8	13.1	24.9	17.2	4.82	26.1	1981
1982	1.75	1.63	1.58	12.8	188	77.8	53.1	83.7	56.3	60.5	33.1	24.5	48.3	1982
1983	18.0	13.9	8.34	7.80	118	97.5	54.9	45.9	88.6	80.0	35.4	18.1	45.8	1983
1984	8.98	5.31	4.15	57.9	87.1	58.5	23.9	15.2	18.7	21.6	11.9	5.94	26.5	1984
1985	3.13	2.01	1.68	84.9	149	108	62.3	43.6	28.2	19.5	8.34	1.86	44.4	1985
1986	0.897	0.551	0.462	3.49	202	82.0	116	75.7	50.9	38.8	26.4	15.8	51.7	1986
1987	10.1	6.23	4.96	49.1	86.9	55.5	45.3	21.6	32.1	32.0	18.0	7.00	30.8	1987
1988	3.27	1.93	1.43	1.37	139	64.7	---	---	22.3	20.3	12.2	4.91	---	1988
MEAN	8.25	5.42	3.68	25.8	119	72.8	54.8	43.5	43.3	40.7	22.0	12.0	38.5	MEAN

LOCATION - LAT 55 59 45 N LONG 97 21 23 W DRAINAGE AREA, 6 130 km^2 NATURAL FLOW

ODEI RIVER NEAR THOMPSON - STATION NO. 05YC003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	1354 AT 17 55 CST ON JUN 4	1344 ON JUN 4	3 80 E ON APR 13	1 090 000	1979
1980	143 AT 22 45 CST ON AUG 28	143 ON AUG 29	2 85 B ON MAR 25	1 220 000	1980
1981	---	3285E ON MAY 18	2 30 B ON DEC 31	821 000	1981
1982	---	3525E ON MAY 3 *	1 82 E ON APR 12	1 520 000	1982
1983	201 AT 12:00 CST ON MAY 31	201 ON MAY 31	4 54 B ON APR 15	1 440 000	1983
1984	170 AT 21 15 CST ON APR 24	167 ON APR 24	3 83 B ON APR 2	838 000	1984
1985	---	3508E ON APR 27	1 18 B ON DEC 31	1 400 000	1985
1986	311 AT 16:20 CST ON MAY 18 *	310 ON MAY 18	0 4808 ON MAR 10 *	1 630 000	1986
1987	206 AT 22:00 CST ON APR 30	204 ON APR 30	4 62 B ON DEC 31	973 000	1987
1988	272 AT 16:06 CST ON MAY 10	268 ON MAY 10	1 35 B ON MAR 31	---	1988
MEAN				1 210 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.004	1.25	0.256	0.025	0.010	0	0	0	---	---	0.190	1978
1983	---	---	0.128	1.08	0	0.702	0.077	0.002	0	0	---	---	0.244	1983
1984	---	---	0.024	0.088	0.005	0.072	0.005	0	0.004	0.011	---	---	0.022	1984
1985	---	---	0.381	0.432	0.015	0.008	0	0.372	0.043	0.002	---	---	0.157	1985
1986	---	---	0.535	0.810	0.412	0.001	0.010	0	0	0	---	---	0.233	1986
1987	---	---	0.249	1.51	0	0	0	0.269	0.004	0.002	---	---	0.251	1987
1988	---	---	0.001	0.081	0	0	0	0	0	0	---	---	0.010	1988
MEAN	---	---	0.189	0.780	0.098	0.115	0.015	0.082	0.007	0.002	---	---	0.184	MEAN

LOCATION - LAT 49 55 00 N LONG 97 12 59 W DRAINAGE AREA, 75.1 km^2 NATURAL FLOW

OMANDS CREEK NEAR BROOKSIDE CEMETERY - STATION NO. 05MJ008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	4.67 B ON APR 8	0 ON MAY 3 *	4 030	1978
1983	10.1 AT 12:00 CST ON JUN 22 *	7.41 ON JUN 22 *	0B ON MAR 1	5 170	1983
1984	1.19 AT 19:56 CST ON JUN 21	0.362B ON APR 2	0B ON MAR 1	469	1984
1985	---	2.51 B ON MAR 28	0B ON MAR 1	3 320	1985
1986	6.01 AT 04:04 CST ON MAR 31	5.75 ON MAR 31	0B ON MAR 1	4 820	1986
1987	---	6.19 ON APR 8	0B ON MAR 1	5 310	1987
1988	---	0.760A ON APR 4	0B ON MAR 1	214	1988
MEAN				3 350	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	1.37	0.340	0.023	0.004	0	0.011	0	---	---	0.219	1978
1983	---	---	0.221	1.13	0.001	0.718	0.025	0.008	0.001	0.005	---	---	0.260	1983
1984	---	---	0.043	0.070	0.006	0.210	0.007	0.002	0.009	0.025	---	---	0.046	1984
1985	---	---	0.581	0.433	0.023	0.034	0.015	0.478	0.040	0.027	---	---	0.206	1985
1986	---	---	0.594	0.864	0.432	0.011	0.048	0.023	0.018	0.004	---	---	0.249	1986
1987	---	---	0.490	1.46	0.003	0.003	0.012	0.270	0.001	0.024	---	---	0.261	1987
1988	---	---	0.014	0.197	0.011	0.030	0.017	0.003	0.010	0.004	---	---	0.035	1988
MEAN	---	---	0.283	0.789	0.117	0.147	0.018	0.112	0.013	0.013	---	---	0.185	MEAN

LOCATION - LAT 49 54 43 N LONG 97 12 20 W DRAINAGE AREA, 80.5 km^2 NATURAL FLOW

OMANDS CREEK NEAR METRO ROUTE 90 - STATION NO. 05MJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	5.89 AT 00:59 CST ON MAY 28	4.70 ON MAY 28	0B ON MAR 1 *	4 630	1978
1983	9.65 AT 12:51 CST ON JUN 22 *	6.62 ON JUN 22 *	0B ON MAR 1	5 500	1983
1984	3.16 AT 22:35 CST ON JUN 21	1.38 ON JUN 22	0B ON MAR 1	972	1984
1985	3.75 AT 10:56 CST ON AUG 17	3.01B ON MAR 28	0B ON MAR 1	4 350	1985
1986	5.63B AT 06:59 CST ON MAR 31	5.50B ON MAR 31	0B ON MAR 1	5 270	1986
1987	---	4.22 ON APR 7	0B ON MAR 1	5 940	1987
1988	1.88 AT 04:10 CST ON JUN 18	1.28A ON APR 4	0 ON MAY 31	743	1988
MEAN				3 920	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	---	---	---	---	1 180	1 120	1 050	---	---	---	---	1971
1972	784	785	826	926	1 180	1 250	1 180	1 110	1 020	950	880	707	980	1972
1973	832	826	685	768	---	---	---	---	---	---	---	---	---	1973
MEAN	808	805	756	847	1 180	1 250	1 170	1 120	1 040	950	880	707	980	MEAN

LOCATION - LAT 54 25 30 N
LONG 98 03 00 W NATURAL FLOW

OMINAWIN CHANNEL BELOW KISKITTOGISU LAKE - STATION NO. 05UB011

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	---	---	---	1971
1972	1 300 AT 05:13 CST ON JUN 13 *	1 280 ON MAY 21 *	8488 ON DEC 31 *	30 300 000	1972
1973	---	---	---	---	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		30 300 000	MEAN

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	---	52.8	72.1	36.5	24.5	38.4	---	---	---	---	1954
1955	---	---	---	---	71.0	22.2	12.0	8.04	2.88	2.77	---	---	---	1955
1956	---	---	0.054	11.1	74.0	57.1	30.8	17.8	8.11	8.86	---	---	25.9	1956
1957	---	---	0	13.7	45.2	16.7	4.76	0.813	1.70	1.19	---	---	10.6	1957
1958	---	---	0.005	21.3	13.5	4.40	6.92	1.71	3.04	9.97	---	---	7.58	1958
1959	---	---	0.576	14.7	19.2	10.7	16.9	9.21	24.5	17.8	---	---	14.2	1959
1960	---	---	0.007	34.6	52.0	30.8	11.6	3.78	1.33	0.733	---	---	18.8	1960
1961	---	---	0.062	14.5	11.9	3.20	0.107	0.026	0.018	0.014	---	---	3.70	1961
1962	---	---	0	3.96	13.1	5.88	0.673	0.125	0.718	0.922	---	---	3.14	1962
1963	---	---	0	7.04	4.50	4.53	6.51	1.53	2.67	1.85	---	---	3.86	1963
1964	---	---	0.084	7.98	27.4	4.21	8.01	9.40	17.6	13.2	---	---	11.0	1964
1965	---	---	0.076	17.4	39.3	56.6	25.9	9.52	13.1	17.6	---	---	22.2	1965
1966	---	---	0.318	14.5	16.3	23.2	34.6	17.0	8.22	6.87	---	---	15.1	1966
1967	---	---	0.577	0.861	52.6	27.3	5.26	1.96	1.08	3.12	---	---	11.6	1967
1968	---	---	0.697	8.29	10.1	36.2	43.6	14.5	10.5	7.79	---	---	16.4	1968
1969	---	---	0.323	26.3	17.5	6.00	0.851	0.267	0.273	11.1	---	---	7.85	1969
1970	---	---	0.128	4.86	35.7	22.6	66.9	20.1	8.01	11.3	---	---	21.1	1970
1971	---	---	0.232	30.7	24.5	8.60	2.08	2.12	0.617	4.41	---	---	8.85	1971
1972	---	---	0.083	13.0	47.8	14.0	4.22	1.50	0.544	0.917	---	---	10.3	1972
1973	---	---	0	6.60	18.5	37.3	21.1	4.56	3.98	5.82	---	---	12.2	1973
1974	---	---	0.500	21.4	70.3	42.6	7.40	2.63	5.01	10.1	---	---	19.9	1974
1975	---	---	0.713	9.75	41.8	43.4	12.3	7.48	9.15	12.3	---	---	17.1	1975
1976	---	---	0.594	5.65	5.53	21.3	25.2	9.16	3.25	1.35	---	---	9.35	1976
1977	---	---	0	4.94	7.41	3.74	3.78	15.0	19.4	13.8	---	---	8.50	1977
1978	---	---	0.716	15.3	38.9	13.7	6.40	8.38	10.7	15.0	---	---	13.6	1978
1979	---	---	0	17.7	62.3	51.9	9.15	2.15	1.84	2.31	---	---	18.3	1979
1980	---	---	0.005	4.85	2.50	0.410	0.770	1.14	1.38	2.91	---	---	1.74	1980
1981	---	---	0.349	8.63	9.12	2.78	2.43	2.03	0.678	15.6	---	---	4.99	1981
1982	---	---	0.024	7.85	11.8	18.8	12.6	4.48	3.08	8.08	---	---	8.30	1982
1983	---	---	0.108	18.1	43.7	41.7	38.8	11.0	6.87	7.22	---	---	20.6	1983
1984	---	---	0.241	30.5	53.4	43.2	7.48	0.731	0.491	3.74	---	---	17.4	1984
1985	---	---	0.070	19.9	22.8	12.5	7.37	10.5	7.50	7.10	---	---	10.9	1985
1986	---	---	0.175	9.94	24.6	11.4	5.60	3.88	1.14	4.25	---	---	7.63	1986
1987	---	---	0.703	20.4	14.8	11.5	31.1	14.8	10.8	14.2	---	---	14.8	1987
1988	---	---	0.161	15.9	37.5	7.85	1.27	0.430	0.545	1.24	---	---	8.12	1988
MEAN	---	---	0.229	14.0	31.2	22.5	14.6	6.82	6.51	7.16	---	---	12.2	MEAN

LOCATION - LAT 53 08 15 N DRAINAGE AREA, 2 530 km^2
LONG 101 08 30 W NATURAL FLOW

OVERFLOWING RIVER AT OVERFLOWING RIVER - STATION NO. 05LD001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	88.8 ON MAY 15	0.0288 ON APR 1	547 000	1956
1957	---	55.2 ON APR 28	0 B ON MAR 1 *	222 000	1957
1958	---	36.0 ON APR 7	0 B ON MAR 1	180 000	1958
1959	---	36.0 ON JUL 1	0 B ON MAR 1	300 000	1959
1960	---	118 B ON APR 22 *	0 B ON MAR 1	355 000	1960
1961	---	27.2 ON APR 26	0.014 ON SEP 3	78 400	1961
1962	---	26.3 ON APR 29	0 B ON MAR 1	88 800	1962
1963	---	19.2 B ON APR 18	0 B ON MAR 1	75 400	1963
1964	---	58.6 ON MAY 12	0.0858 ON MAR 1	233 000	1964
1965	---	80.3 ON JUN 10	0.0768 ON MAR 1	470 000	1965
1966	---	47.0 ON JUL 21	0.2888 ON MAR 1	320 000	1966
1967	---	78.2 ON MAY 12	0.4028 ON APR 16	246 000	1967
1968	---	55.8 ON JUN 1	0.0258 ON MAR 21	348 000	1968
1969	---	53.5 B ON APR 14	0.037E ON SEP 15	162 000	1969
1970	---	80.8 ON JUL 16	0.1058 ON APR 7	448 000	1970
1971	---	78.7 B ON APR 19	0.096A ON SEP 16	187 000	1971
1972	---	56.8 E ON APR 29	0.0718 ON MAR 1	217 000	1972
1973	47.0 AT 02:31 CST ON JUN 22	47.0 ON JUN 22	0 B ON MAR 1	258 000	1973
1974	85.8 AT 00:11 CST ON APR 30 *	85.5 ON APR 29	0.3868 ON MAR 29	422 000	1974
1975	55.2 AT 10:22 CST ON JUN 10	54.7 ON JUN 11	0.4538 ON APR 8	361 000	1975
1976	---	39.8 ON JUN 29	0.5448 ON MAR 1	198 000	1976
1977	24.7 AT 12:43 CST ON SEP 18	24.6 ON SEP 18	0 B ON MAR 1	180 000	1977
1978	89.1 AT 04:16 CST ON MAY 1	68.5 ON MAY 1	0.8818 ON MAR 1	288 000	1978
1979	73.8 AT 19:00 CST ON APR 29	73.8 R ON APR 29	0 B ON MAR 1	367 000	1979
1980	---	8.918 ON APR 17	0 B ON MAR 1	35 800	1980
1981	28.7 AT 23:59 CST ON OCT 31	28.1 ON OCT 31	0 B ON MAR 1	105 000	1981
1982	27.1 AT 20:12 CST ON JUN 1	26.8 ON JUN 2	0.0178 ON MAR 29	176 000	1982
1983	---	58.5 B ON APR 24	0.0188 ON MAR 10	437 000	1983
1984	63.7 AT 16:50 CST ON MAY 24	63.0 ON MAY 25	0.813E ON MAR 21	368 000	1984
1985	29.3 AT 17:34 CST ON MAY 15	28.7 ON MAY 15	0.0308 ON MAR 12	231 000	1985
1986	30.5 AT 19:22 CST ON MAY 19	30.2 ON MAY 20	0.0048 ON MAR 8	162 000	1986
1987	43.2 AT 12:27 CST ON JUL 25	43.0 ON JUL 25	0.3048 ON MAR 8	313 000	1987
1988	84.3 AT 08:21 CST ON MAY 4	83.8 ON MAY 4	0.0508 ON MAR 1	172 000	1988
				258 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	---	---	---	0.078	0.028	0.023	0.012	---	---	---	---	1980
1981	---	---	---	---	0.254	0.017	0.041	0.017	0.004	---	---	---	---	1981
1982	---	---	---	---	---	0.023	0.005	0.011	0.008	---	---	---	---	1982
1983	---	---	---	---	---	0.308	0.028	0.018	0.015	---	---	---	---	1983
1984	---	---	---	---	0.103	0.031	0.011	0.009	0.011	---	---	---	---	1984
1985	---	---	---	0.086	0.295	0.103	0.043	0.030	0.268	0.033	---	---	0.123	1985
1986	---	---	---	0.158	0.247	0.085	0.032	0.085	0.017	0.031	---	---	0.094	1986
1987	---	---	---	0.240	0.380	0.070	0.026	0.021	0.016	0.037	---	---	0.113	1987
1988	---	---	---	0.116	0.115	0.102	0.119	0.128	0.048	0.042	---	---	0.086	1988
1989	---	---	---	0.284	0.168	0.278	0.282	0.033	0.028	0.016	---	---	0.155	1989
1990	---	---	---	0.087	0.633	0.113	0.061	0.034	0.048	0.062	---	---	0.146	1990
1991	---	---	---	---	0.082	0.358	0.068	0.022	0.035	---	---	---	---	1991
1992	---	---	---	0.286	0.178	0.045	0.018	0.015	0.014	---	---	---	---	1992
1993	---	---	---	0.049	0.081	0.120	0.032	0.038	0.078	0.079	---	---	0.068	1993
1994	---	---	---	0.288	0.283	0.103	0.028	0.021	0.018	0.011	---	---	0.118	1994
1995	---	---	---	---	0.208	0.135	0.026	0.089	---	---	---	---	---	1995
MEAN	---	---	---	0.179	0.237	0.133	0.063	0.038	0.047	0.039	---	---	0.114	MEAN

LOCATION - LAT 50 43 00 N
LONG 99 35 00 W
DRAINAGE AREA, 9.14 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

PACKHORSE CREEK NEAR MCCREARY - STATION NO. 05LJ034

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	1.42 AT 14:00 CST ON MAY 26	1.30 ON MAY 26	0 ON SEP 18 *	---	1980
1981	---	---	0 ON JUN 7	---	1981
1982	5.95 AT 22:30 CST ON MAY 28	2.45 ON MAY 30	0 ON JUN 11	---	1982
1983	3.48 AT 05:20 CST ON JUN 10	1.35 ON JUN 10	---	---	1983
1984	---	---	---	---	1984
1985	1.82 AT 17:40 CST ON SEP 4	1.47 ON SEP 17	0 B ON APR 1	2 280	1985
1986	2.42 AT 03:30 CST ON AUG 7	1.30 ON AUG 7	0.011 ON SEP 22	1 740	1986
1987	1.18 AT 18:30 CST ON MAY 14	0.937 ON MAY 7	0.0038 ON APR 1	2 080	1987
1988	1.53 AT 14:30 CST ON JUL 7	0.864E ON MAY 8	0.020 ON JUL 26	1 770	1988
1989	4.67 AT 03:30 CST ON JUN 27	2.77 ON JUN 27	0.011E ON OCT 24	2 880	1989
1970	3.94 AT 17:15 CST ON MAY 7	2.15 ON MAY 7	0.018 ON AUG 25	2 710	1970
1971	---	3.46 ON JUN 6	---	---	1971
1972	---	1.61 B ON APR 26	---	---	1972
1973	1.26 AT 13:00 CST ON JUN 20	0.821 ON JUN 20	0.001 ON JUL 23	1 280	1973
1974	2.57 AT 16:00 CST ON MAY 11	1.91 ON MAY 11	0.001 ON OCT 8	2 180	1974
1975	13.6 AT 18:00 CST ON SEP 18 *	8.76 ON SEP 18 *	---	---	1975
				2 110	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PANSY DRAIN NEAR SARTO - STATION NO. 05DE014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.113	0.018	0.001	---	---	---	---	---	---	0.023	1978
1979	---	---	0	0.284	0.232	0.133	---	---	---	---	---	---	0.154	1979
1980	---	---	0	0.031	0	0	---	---	---	---	---	---	0.008	1980
1981	---	---	0.001	0	0.002	0	---	---	---	---	---	---	0.001	1981
1982	---	---	0.003	0.141	0.087	0.117	---	---	---	---	---	---	0.081	1982
1983	---	---	0.337	0.940	0.053	0.014	---	---	---	---	---	---	0.333	1983
1984	---	---	0.074	0.010	0.003	0.028	---	---	---	---	---	---	0.028	1984
1985	---	---	0.010	0.008	0.008	0.001	---	---	---	---	---	---	0.007	1985
1986	---	---	0.087	0.435	0.785	0.003	---	---	---	---	---	---	0.334	1986
1987	---	---	0.048	0.381	0.018	0.002	---	---	---	---	---	---	0.112	1987
1988	---	---	0	0.015	0.001	0	---	---	---	---	---	---	0.004	1988
MEAN	---	---	0.052	0.212	0.109	0.027	---	---	---	---	---	---	0.100	MEAN

LOCATION - LAT 49 23 05 N
LONG 98 43 53 W
DRAINAGE AREA, 46.6 km^2
NATURAL FLOW

PANSY DRAIN NEAR SARTO - STATION NO. 05DE014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	---	0.521 ON APR 8	0B ON MAR 1 *	343	1978
1979	0.816 AT 14:34 CST ON APR 25	0.807 ON APR 25	0B ON MAR 1	1 820	1979
1980	0.230 AT 11:15 CST ON APR 7	0.1338 ON APR 7	0B ON MAR 1	80.4	1980
1981	0.018 AT 18:05 CST ON MAY 28	0.015 ON MAY 30	0B ON MAR 1	11.0	1981
1982	0.586 AT 18:20 CST ON JUN 10	0.554 ON JUN 10	0B ON MAR 1	856	1982
1983	2.12 B AT 11:26 CST ON APR 8	2.12 B ON APR 8	0B ON MAR 1	3 520	1983
1984	---	1.05 B ON MAR 28	0B ON MAR 1	307	1984
1985	---	0.1008 ON MAR 25	0B ON MAR 1	88.8	1985
1986	2.76 AT 01:17 CST ON MAY 5 *	2.56 ON MAY 5 *	0B ON MAR 1	3 530	1986
1987	1.74 AT 00:43 CST ON APR 7	1.42 ON APR 7	0B ON MAR 1	1 180	1987
1988	---	0.107 ON APR 4	0B ON MAR 1	39.4	1988
				1 050	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PELICAN CREEK SOUTH TRIBUTARY NEAR BIRNIE - STATION NO 05LL027

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	0.201	0.229	0.021	0.005	0	0	0	---	---	0.081	1974
1975	---	---	0	0.123	0.110	0.079	0.018	0.144	0.242	0.071	---	---	0.098	1975
1976	---	---	0.010	0.328	0.089	0.040	0.013	0	0	0	---	---	0.057	1976
1977	---	---	0	0.010	0.008	0.004	0.002	0	0	0.003	---	---	0.003	1977
1978	---	---	0	0.110	0.081	0.013	0.002	0	0	0.002	---	---	0.023	1978
1979	---	---	0	0.170	0.402	0.089	0.006	0	0	0	---	---	0.083	1979
1980	---	---	0	0.038	0.008	0.001	0	0.047	0.013	0.011	---	---	0.014	1980
1981	---	0.003	0.011	0.050	0.018	0.015	0.001	0	0	0.005	---	---	0.012	1981
1982	---	---	0	0.098	0.087	0.018	0.018	0.015	0.002	0.011	---	---	0.028	1982
1983	---	---	0	0.226	0.128	0.056	0.184	0.004	0	0	---	---	0.065	1983
1984	---	---	0.003	0.022	0.022	0.036	0.010	0.001	0	0.019	---	---	0.014	1984
1985	---	---	0.011	0.095	0.044	0.054	0.012	0.017	0.018	0.047	---	---	0.037	1985
1986	---	---	0.048	0.176	0.223	0.012	0.020	0.003	0.003	0.011	---	---	0.082	1986
1987	---	---	0.018	0.151	0.024	0.010	0.010	0.002	0.002	0.002	---	---	0.027	1987
1988	---	---	0	0.083	0.023	0.002	0.001	0	0	0	---	---	0.011	1988
MEAN	---	0.003	0.007	0.124	0.086	0.032	0.015	0.018	0.019	0.012	---	---	0.040	MEAN

LOCATION - LAT 50 28 35 N DRAINAGE AREA, 9.09 km²
LONG 99 29 05 W NATURAL FLOW

REMARKS - PRIOR TO 1987 PUBLISHED AS JUST "PELICAN CREEK NEAR BIRNIE"

PELICAN CREEK SOUTH TRIBUTARY NEAR BIRNIE - STATION NO 05LL027

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	0.806 ON APR 26	0.000 ON MAR 1 *	1 280	1974
1975	2.85 AT 08:20 CST ON SEP 19 *	1.71 ON SEP 19 *	0.000 ON MAR 1	2 070	1975
1976	---	0.793 ON APR 17	0.000 ON JUL 27	1 200	1976
1977	---	0.040 ON MAY 5	0.000 ON MAR 1	88.7	1977
1978	---	0.249 ON APR 23	0.000 ON MAR 1	496	1978
1979	---	1.61 A ON MAY 16	0.000 ON MAR 1	1 770	1979
1980	0.884 AT 07:48 CST ON AUG 21	0.419 ON AUG 21	0.000 ON MAR 1	305	1980
1981	0.135 AT 18:27 CST ON APR 4	0.118 ON APR 2	0.000 ON JUL 29	264	1981
1982	---	0.3778 ON APR 15	0.000 ON MAR 1	801	1982
1983	1.92 AT 20:48 CST ON APR 23	0.884 ON APR 24	0.000 ON MAR 1	1 370	1983
1984	0.745 AT 22:33 CST ON JUN 22	0.293 ON JUN 23	0.000 ON MAR 1	298	1984
1985	0.325 AT 01:14 CST ON APR 15	0.219 ON APR 15	0.000 ON MAR 1	766	1985
1986	2.98 E AT 19:50 CST ON MAY 5	1.12 A ON MAY 5	0.000 ON AUG 24	1 310	1986
1987	0.8838 AT 20:48 CST ON APR 7	0.4818 ON APR 7	0.000 ON AUG 7	573	1987
1988	0.4148 AT 22:38 CST ON APR 3	0.2738 ON APR 4	0.000 ON MAR 1	232	1988
				842	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05DA010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0.028	1.83	0.065	2.55	0.084	0.788	0.073	0.071	---	---	0.588	1962
1963	---	---	0.329	0.988	0.431	0.984	0.121	0.030	0.017	0.028	---	---	0.363	1963
1964	---	---	0	2.16	0.942	0.380	0.331	0.075	0.089	0.113	---	---	0.507	1964
1965	---	---	0.016	4.19	1.69	0.893	0.548	0.288	0.095	0.057	---	---	0.883	1965
1966	---	---	1.15	1.04	1.18	0.274	0.817	0.057	0.005	0.007	---	---	0.530	1966
1967	---	---	0.082	1.48	0.852	0.204	0.028	0.005	0.002	0.008	---	---	0.338	1967
1968	---	---	0.293	0.356	0.248	0.048	0.035	0.585	1.43	0.240	---	---	0.401	1968
1969	---	---	0	11.7	0.734	0.129	0.808	0.048	0.017	0.027	---	---	1.88	1969
1970	---	---	0	3.33	3.49	0.584	0.110	0.027	0.017	0.029	---	---	0.945	1970
1971	---	---	0	2.08	0.580	0.784	0.747	0.040	0.024	0.334	---	---	0.586	1971
1972	---	---	3.48	4.49	1.28	2.56	0.428	1.07	0.143	0.103	---	---	1.69	1972
1973	---	---	0.573	0.270	0.855	0.841	0.364	0.203	0.242	0.232	---	---	0.480	1973
1974	---	---	0.043	13.1	8.33	0.986	0.108	0.044	0.023	0.031	---	---	2.55	1974
1975	---	---	0.008	9.43	3.77	1.10	0.206	0.045	0.290	0.484	---	---	1.88	1975
1976	---	---	0.083	13.1	0.842	0.200	0.038	0.008	0.004	0.004	---	---	1.75	1976
1977	---	---	0.130	0.254	0.521	0.076	0.088	0.014	0	0.001	---	---	0.137	1977
1978	---	---	0.035	2.16	0.801	0.279	0.218	0.130	0.075	0.024	---	---	0.480	1978
1979	---	---	0	7.33	2.14	0.586	0.037	0.010	0.002	0.001	---	---	1.25	1979
1980	---	---	0.003	1.41	0.088	0.018	0.005	0.111	0.078	0.219	---	---	0.238	1980
1981	---	0.333	0.354	0.220	0.248	0.230	0.120	0.103	0.054	0.052	---	---	0.173	1981
1982	---	---	0.942	4.86	0.711	0.505	0.071	0.007	0.003	0.085	---	---	0.888	1982
1983	---	---	0.824	2.75	0.857	0.173	0.030	0.002	0.001	0.001	---	---	0.550	1983
1984	---	---	0.518	0.675	0.782	0.058	0.011	0.002	0	0.001	---	---	0.253	1984
1985	---	---	3.89	0.613	0.107	0.044	0.037	0.109	0.045	0.073	---	---	0.619	1985
1986	---	---	1.45	1.93	1.61	0.107	0.066	0.071	0.008	0.008	---	---	0.856	1986
1987	---	---	4.34	3.03	0.182	0.003	0	0.317	0.030	0.094	---	---	0.887	1987
1988	---	---	0.021	0.274	0.059	0.024	0.001	0	0	0	---	---	0.047	1988
MEAN	---	0.333	0.881	3.53	1.15	0.545	0.192	0.158	0.103	0.086	---	---	0.789	MEAN

LOCATION - LAT 49 15 50 N DRAINAGE AREA, 542 km²
LONG 98 27 44 W REGULATED

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.05 AND 0.007 m^3/s OCCURRED IN FEB

PEMBINA RIVER ABOVE LORNE LAKE - STATION NO. 05DA010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	25.5 ON JUN 16	0 B ON MAR 1 *	14 800	1982
1983	---	5.86 ON JUN 6	0 B ON MAR 1	7 680	1983
1984	---	7.33 B ON APR 11	0 B ON MAR 1	10 700	1984
1985	---	17.4 B ON APR 13	0 B ON MAR 1	20 400	1985
1986	---	2.89 B ON MAR 25	0 ON MAR 1	11 200	1986
1987	---	3.17 ON APR 30	0 B ON MAR 1	7 180	1987
1988	---	4.42 ON AUG 27	0 B ON MAR 1	8 800	1988
1989	---	44.7 ON APR 12	0 B ON MAR 1	36 100	1989
1970	---	21.2 ON APR 28	0 B ON MAR 1	20 000	1970
1971	---	6.43 ON APR 11	0 B ON MAR 1	12 000	1971
1972	---	18.0 B ON MAR 17	0 B ON MAR 1	35 800	1972
1973	---	3.84 ON JUN 22	0 B ON MAR 1	9 740	1973
1974	---	52.1 ON APR 22 *	0.008 ON AUG 10	54 100	1974
1975	---	38.5 ON APR 29	0.0088 ON MAR 1	40 100	1975
1976	---	27.9 ON APR 7	0.003 ON SEP 19	37 200	1976
1977	---	2.12 ON MAY 20	0 ON AUG 29	2 880	1977
1978	---	5.78 B ON APR 6	0 ON AUG 1	9 740	1978
1979	---	45.3 B ON APR 20	0 B ON MAR 1	28 400	1979
1980	---	6.05 B ON APR 4	0.001 ON JUL 29	5 080	1980
1981	---	0.8598 ON MAR 18	0.008 ON AUG 22	3 850	1981
1982	16.3 AT 18 46 CST ON APR 14 *	12.1 ON APR 14	0 B ON MAR 1	18 800	1982
1983	9.338 AT 16 06 CST ON APR 2	6.68 B ON APR 2	0.001 ON AUG 11	11 800	1983
1984	---	3.20 B ON MAR 25	0 B ON MAR 1	5 380	1984
1985	---	17.0 B ON MAR 21	0 B ON MAR 1	13 100	1985
1986	7.50 AT 21 31 CST ON APR 20	6.84 ON APR 20	0 B ON MAR 1	13 900	1986
1987	---	19.0 B ON MAR 22	0 B ON MAR 1	21 100	1987
1988	---	1.80 B ON APR 5	0 B ON MAR 1	887	1988
				16 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05DA012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.783	0.821	0.473	1.03	0.074	0.016	0.003	0	---	---	0.395	1983
1984	---	---	0.015	1.59	0.489	0.137	0.247	0.009	0.008	0	---	---	0.310	1984
1985	---	---	0	4.76	1.35	1.04	0.200	0.055	0.051	0.082	---	---	0.928	1985
1986	---	---	1.30	1.22	1.37	0.410	0.715	0.106	0.003	0	---	---	0.641	1986
1987	---	---	0.085	1.06	0.783	0.177	0.035	0.006	0	0	---	---	0.265	1987
1988	---	---	0.299	0.388	0.152	0.052	0.033	0.386	0.489	0.118	---	---	0.235	1988
1989	---	---	0	12.9	1.19	0.275	1.51	0.063	0.018	0.029	---	---	1.86	1989
1970	---	---	0	3.17	3.27	0.302	0.036	0.007	0	0.003	---	---	0.845	1970
1971	---	---	0	2.07	0.487	0.788	0.722	0.023	0.005	0.298	---	---	0.544	1971
1972	---	---	3.21	3.88	1.11	1.48	0.382	0.885	0.093	0.230	---	---	1.47	1972
1973	---	---	0.432	0.285	0.778	0.873	0.298	0.345	0.197	0.233	---	---	0.444	1973
1974	---	---	0.035	12.5	5.41	0.748	0.084	0.058	0.033	0.034	---	---	2.33	1974
1975	---	---	0.020	8.18	3.21	1.05	0.164	0.025	0.300	0.530	---	---	1.87	1975
1976	---	---	0.052	12.6	0.859	0.397	0.035	0.009	0.002	0	---	---	1.73	1976
MEAN	---	---	0.444	4.67	1.50	0.662	0.332	0.147	0.068	0.110	---	---	0.885	MEAN

LOCATION - LAT 49 15 10 N LONG 99 34 40 W DRAINAGE AREA, 485 km^2 NATURAL FLOW

PEMBINA RIVER ABOVE PEMBINA RIVER DIVERSION - STATION NO. 05DA012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	---	5.13 ON JUN 6	0 B ON MAR 1 *	8 370	1983
1984	---	3.408 ON APR 12	0 B ON MAR 1	6 570	1984
1985	---	12.0 B ON APR 13	0 B ON MAR 1	19 800	1985
1986	---	3.008 ON MAR 22	0 ON MAR 1	13 600	1986
1987	---	2.56 ON MAY 4	0 B ON MAR 1	5 620	1987
1988	---	3.48 ON AUG 27	0 B ON MAR 1	4 990	1988
1989	---	58.3 ON APR 11 *	0 B ON MAR 1	41 800	1989
1970	---	20.7 ON APR 27	0 B ON MAR 1	17 900	1970
1971	---	7.938 ON APR 10	0 B ON MAR 1	11 500	1971
1972	---	14.6 B ON MAR 17	0 B ON MAR 1	31 100	1972
1973	---	4.87 ON JUN 21	0 B ON MAR 1	9 400	1973
1974	---	43.9 ON APR 17	0 ON AUG 1	49 400	1974
1975	---	46.2 ON APR 29	0.001 ON AUG 20	35 300	1975
1976	---	33.4 B ON APR 3	0 ON JUL 24	38 800	1976
				20 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER AT NECHE STATION NO. 05DC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1903	---	---	---	---	5.71	4.22	1.71	0.934	0.934	1.13	0.850	0.425	---	1903
1904	0.227	0.113	0.057	42.2	74.8	47.9	23.8	10.9	8.54	6.65	4.81	3.68	18.7	1904
1905	1.67	0.566	5.66	13.6	12.7	13.7	5.84	2.75	2.66	3.37	2.27	0.566	5.46	1905
1906	0.283	0.142	0.057	11.6	5.46	7.69	4.96	3.70	4.17	4.08	2.75	0.425	3.77	1906
1907	0.142	0.057	0.085	4.81	45.3	14.4	4.41	1.54	0.886	1.56	1.08	0.538	8.30	1907
1908	0.170	0.085	0.085	9.29	13.4	5.35	2.49	1.48	1.73	---	---	---	---	1908
1909	---	---	---	---	---	9.32	3.66	1.37	0.764	1.30	0.891	0.142	---	1909
1910	0.085	0.057	5.97	4.69	3.39	1.71	0.989	0.194	0.111	0.181	0.085	0.057	1.47	1910
1911	0.028	0.014	5.61	8.32	6.63	4.36	1.39	0.883	0.182	0.565	0.425	0.283	2.37	1911
1912	0.142	0.057	0.198	4.48	4.93	4.20	3.66	2.42	5.12	5.41	3.40	1.42	2.85	1912
1913	0.566	0.283	0.142	47.4	15.0	5.41	3.01	1.97	1.75	1.80	1.42	0.566	5.56	1913
1914	0.283	0.283	1.42	7.70	6.23	3.81	1.37	0.379	0.364	0.901	0.597	0.255	1.97	1914
1915	0.170	0.142	0.255	1.29	0.715	0.698	0.574	0.248	0.220	---	---	---	---	1915
1916	---	---	---	23.3	10.7	4.64	2.47	0.841	0.975	2.51	1.84	0.850	---	1916
1920	0.566	0.425	0.792	5.06	6.46	4.20	2.17	0.500	0.520	3.58	2.88	1.70	2.39	1920
1921	0.850	0.566	0.566	10.1	4.77	2.73	3.20	0.532	0.460	3.00	1.52	0.850	2.43	1921
1922	0.227	0.127	1.16	12.7	6.66	3.96	0.752	0.265	1.09	1.93	2.08	0.834	2.67	1922
1923	0.566	0.283	0.311	32.4	32.0	8.92	2.44	2.52	2.95	3.22	2.56	0.851	7.42	1923
1924	0.113	0.085	0.198	6.21	4.43	2.78	1.53	0.407	0.582	4.78	2.88	0.566	2.06	1924
1925	0.057	0.057	10.8	11.8	5.57	7.16	3.22	0.539	1.56	4.05	1.80	0.708	3.98	1925
1926	0.340	0.085	1.66	4.11	2.84	2.72	2.63	0.377	1.35	1.65	1.22	0.878	1.66	1926
1927	0.425	0.113	7.66	28.6	32.6	16.1	6.57	5.37	7.72	6.51	3.49	1.42	10.0	1927
1928	1.13	0.708	9.14	10.1	5.91	5.12	4.30	1.66	2.03	3.44	1.27	0.835	3.80	1928
1929	0.340	0.227	5.19	6.22	3.11	2.25	0.176	0.109	0.135	0.536	1.29	0.227	1.65	1929
1930	0.057	0.028	0.028	26.3	13.0	8.11	2.43	0.451	0.338	0.730	0.316	0.079	4.14	1930
1931	0.204	0.167	1.28	13.1	2.91	0.832	0.305	0.058	0.011	0.018	0.140	0.029	1.56	1931
1932	0.004	0.088	0.401	12.0	5.26	2.02	0.588	0.173	0.052	0.213	0.227	0.077	1.75	1932
1933	0	0	0.507	20.4	15.7	9.06	2.11	0.771	0.818	1.34	0.584	0.272	4.30	1933
1934	0.134	0.136	2.13	9.72	4.35	1.82	0.584	0.039	0.003	0.048	0.030	0.002	1.58	1934
1935	0	0	0.357	4.08	1.82	3.06	1.77	0.665	0.421	0.396	0.142	0.062	1.06	1935
1936	0.018	0.001	0	18.3	12.1	5.67	1.81	0.585	0.717	0.401	0.201	0.100	3.37	1936
1937	0.018	0	0	3.17	2.12	1.66	0.404	0.353	0.011	0.023	0.010	0.005	0.663	1937
1938	0	0	5.07	2.86	2.22	1.04	0.353	0.001	0	0	0	0	0.970	1938
1939	0	0	0	0.889	0.333	0.306	0.017	0	0	0	0	0	0.112	1939
1940	0	0	0	2.86	1.00	0.186	0	0.200	0	0	0	0	0.335	1940
1941	0	0	0	28.2	10.9	4.84	1.76	0.787	3.81	3.45	1.47	0.744	4.65	1941
1942	0.100	0.031	1.30	53.8	27.7	10.3	3.66	2.83	1.94	1.43	0.980	0.269	6.66	1942
1943	0.184	0.155	4.38	14.2	8.55	8.82	6.41	5.88	5.12	3.48	2.04	1.13	5.05	1943
1944	0.209	0.103	0.106	7.76	5.77	7.23	16.0	23.0	13.1	5.76	5.62	2.97	7.40	1944
1945	1.22	1.40	21.0	30.6	21.5	12.6	7.28	4.03	2.73	1.89	1.01	0.615	6.83	1945
1946	0.254	0.253	18.1	18.1	8.22	3.21	1.81	0.906	0.575	0.836	0.644	0.209	4.37	1946
1947	0.050	0.034	0.029	17.2	8.27	5.66	2.49	3.46	1.84	1.52	0.796	0.437	3.46	1947
1948	0.396	0.156	0.143	26.3	25.2	11.7	6.63	5.56	3.32	1.89	1.29	0.585	7.11	1948
1949	0.363	0.340	0.324	56.8	44.4	18.6	7.72	4.03	1.96	1.80	1.18	0.804	12.5	1949
1950	0.250	0.189	0.271	51.1	81.7	34.3	16.8	11.6	6.30	4.30	2.49	1.06	17.6	1950
1951	0.892	0.708	1.09	23.9	14.5	7.52	3.40	1.91	1.38	0.818	0.445	0.206	4.73	1951
1952	0.036	0.028	0.036	8.03	5.78	3.48	2.00	0.583	0.128	0.101	0.171	0.038	1.70	1952
1953	0.006	0.003	0.026	2.01	1.32	4.46	2.57	1.61	0.415	0.250	0.271	0.103	1.11	1953
1954	0.030	0.009	0.262	2.68	2.28	11.0	19.4	11.4	5.63	4.07	2.17	0.794	5.03	1954
1955	0.286	0.457	0.386	42.8	24.2	16.4	8.50	3.09	1.61	1.51	0.709	0.408	8.36	1955
1956	0.250	0.242	0.343	33.4	84.1	24.9	10.7	5.17	3.96	2.83	1.79	0.566	12.4	1956
1957	0.446	0.218	3.36	7.80	5.72	3.82	1.81	2.20	3.30	4.68	2.48	1.74	3.14	1957
1958	0.893	0.596	0.686	5.82	3.56	1.10	0.903	0.147	0.085	0.151	0.108	0.008	1.18	1958
1959	0.004	0.003	0.021	14.2	4.71	3.96	1.13	0.610	0.306	0.903	1.75	2.84	2.52	1959
1960	1.87	1.13	0.654	51.9	35.5	13.6	5.76	2.67	1.25	0.753	0.548	0.148	9.62	1960
1961	0.123	0.056	1.39	7.80	5.17	1.61	0.386	0.088	0.103	0.120	0.067	0.027	1.40	1961
1962	0.011	0.004	0.028	19.1	10.7	8.39	3.25	2.35	2.83	1.78	0.693	0.826	4.15	1962
1963	0.522	0.047	2.58	5.67	5.44	7.80	4.87	3.60	2.11	1.29	0.622	0.187	2.88	1963
1964	0.093	0.091	0.078	9.31	9.30	5.76	2.07	1.40	1.62	1.24	0.642	0.197	2.85	1964
1965	0.125	0.105	0.078	24.4	19.9	12.8	5.14	2.12	2.68	2.41	1.46	0.865	6.02	1965
1966	0.608	0.484	3.94	43.8	27.3	11.0	5.65	3.21	1.27	0.733	0.447	0.208	8.32	1966
1967	0.229	0.238	0.753	26.1	28.8	9.00	2.98	1.09	0.378	0.626	0.544	0.177	5.80	1967
1968	0.073	0.051	4.41	5.80	4.07	1.98	1.24	3.92	9.71	10.7	5.41	1.80	4.08	1968
1969	0.680	0.480	0.665	89.2	51.1	17.8	10.3	5.20	3.43	2.29	1.65	0.830	15.3	1969
1970	0.491	0.430	0.333	45.7	65.5	41.5	22.9	9.13	5.10	3.34	2.20	0.880	16.5	1970
1971	0.416	0.380	0.457	67.9	42.9	16.5	9.73	7.54	4.46	2.86	1.88	0.974	13.0	1971
1972	0.489	0.308	11.2	37.7	25.2	10.1	5.63	5.04	3.14	2.12	0.897	0.240	8.51	1972
1973	0.079	0.076	2.57	2.87	2.01	1.45	1.60	1.74	1.75	1.72	1.09	0.589	1.49	1973
1974	0.298	0.176	0.332	65.7	121	50.3	15.0	4.24	2.80	1.84	1.10	0.613	24.5	1974
1975	0.336	0.207	0.232	10.2	34.8	16.8	7.48	2.86	1.42	1.25	0.787	0.339	8.59	1975
1976	0.373	0.424	0.869	76.4	41.0	14.2	7.13	2.41	1.17	0.784	0.417	0.072	12.2	1976
1977	0.082	0.085	0.433	1.98	2.27	1.38	0.534	0.162	0.723	0.625	0.308	0.170	0.743	1977
1978	0.085	0.012	0.002	33.1	14.7	5.51	1.83	1.33	1.41	0.704	0.331	0.143	4.93	1978
1979	0.106	0.083	0.135	58.4	83.0	24.6	8.17	2.28	1.78	1.30	0.778	0.374	15.8	1979
1980	0.183	0.143	0.185	6.80	2.38	1.04	0.318	0.324	0.365	0.594	0.704	0.185	1.01	1980
1981	0.038	0.712	3.18	6.25	3.89	1.86	0.789	0.400	0.178	0.394	0.315	0.104	1.51	1981
1982	0.028	0.001	0.846	17.1	18.3	14.7	7.40	3.78	1.73	2.30	0.816	0.587	5.86	1982
1983	0.383	0.154	4.88	28.0	12.8	7.76	2.07	0.648	0.355	0.681	0.537	0.088	4.70	1983
1984	0.015	0	0.728	4.19	4.84	3.92	0.832	0.198	0.065	0.205	0.126	0.064	1.26	1984
1985	0.002	0	16.0	23.6	7.49	3.87	3.86	2.30	1.28	1.56	1.18	0.504	4.98	1985
1986	0.431	0.238	16.2	26.2	21.8	10.8	5.06	3.78	1.85	1.40	0.493	0.345	7.42	1986
1987	0.384	0.480	1.37	56.6	24.8	7.49	3.22	1.75	1.83	1.86	1.02	0.548	8.43	1987
1988	0.120	0.062	1.26	4.13	1.53	0.468	0.083	0.012	0.003	0.011	0.076	0.087	0.652	1988
MEAN	0.293	0.206	2.39	21.6	18.1	8.86	4.46	2.52	1.97	1.91	1.23	0.559	5.48	MEAN

LOCATION - LAT 48 59 20 N DRAINAGE AREA, 8 470 km² INTERNATIONAL GAUGING STATION
LONG 97 33 05 W REGULATED

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05DC001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1903	---	---	---	---	1903
1904	122 ON MAY 2	110 ON MAY 2	0.057E ON MAR 1	569 000	1904
1905	---	38.8 ON APR 5	0.568E ON FEB 1	172 000	1905
1906	22.7 ON APR 4	11.8 E ON APR 1	0.057E ON MAR 1	119 000	1906
1907	---	62.0 ON MAY 14	0.057E ON FEB 1	198 000	1907
1908	28.2 ON APR 10	18.7 ON MAY 11	---	---	1908
1909	---	---	---	---	1909
1910	18.4 ON MAR 15	7.08 ON APR 20	0.057E ON FEB 1	48 300	1910
1911	28.5 ON MAR 24	14.7 ON MAY 18	0.014E ON FEB 1	74 800	1911
1912	28.3 ON JUL 28	24.6 ON JUL 29	0.057E ON FEB 1	83 500	1912
1913	110 ON APR 7	109 ON APR 8	0.142E ON MAR 1	208 000	1913
1914	---	11.0 ON APR 18	0.170 ON SEP 11	82 100	1914
1915	5.10 ON APR 7	4.36 ON APR 7	---	---	1915
1919	---	68.8 ON APR 15	---	---	1919
1920	---	10.2 B ON APR 19	0.263B ON MAR 26	75 600	1920
1921	---	20.8 ON APR 13	0.127 ON SEP 23	78 800	1921
1922	---	36.8 ON APR 7	0.127B ON FEB 1	84 200	1922
1923	---	88.3 ON APR 20	0.283E ON FEB 1	234 000	1923
1924	---	19.1 ON APR 20	0.085E ON FEB 1	65 000	1924
1925	---	66.5 ON MAR 28	0.057E ON JAN 1	126 000	1925
1926	---	9.00 ON JUL 6	0.057E ON MAR 1	52 400	1926
1927	88.1 ON MAY 12	85.4 ON MAY 12	0.113B ON FEB 1	317 000	1927
1928	---	36.0 B ON MAR 25	0.568B ON DEC 16	120 000	1928
1929	---	21.2 B ON MAR 21	0.028 ON JUL 5	52 100	1929
1930	---	82.1 B ON APR 8	0.028B ON FEB 1	130 000	1930
1931	44.7 B ON APR 9	42.2 B ON APR 9	0.006 ON SEP 9	49 400	1931
1932	35.1 B ON APR 9	33.1 B ON APR 9	0 B ON FEB 1 *	85 200	1932
1933	---	33.4 ON MAY 26	0 E ON JAN 1	136 000	1933
1934	---	22.1 B ON APR 9	0 ON SEP 15	50 000	1934
1935	---	10.3 ON JUN 18	0 ON JAN 1	33 800	1935
1936	---	71.8 ON APR 15	0 ON FEB 10	107 000	1936
1937	6.71 ON JUN 8	6.03 ON APR 11	0 ON JAN 29	20 8[illegible]	1937
1938	20.7 AT 02:00 CST ON MAR 20	17.8 ON MAR 19	0 E ON JAN 1	30 6[illegible]	1938
1939	1.478 ON APR 4	1.428 ON APR 4	0 ON JAN 1	3 540	1939
1940	23.1 B AT 18:00 CST ON APR 20	20.7 B ON APR 20	0 E ON JAN 1	10 800	1940
1941	---	80.1 ON APR 14	0 E ON JAN 1	147 000	1941
1942	101 IN APR	97.1 ON APR 8	0.023B ON FEB 11	273 000	1942
1943	38.8 B ON MAR 27	31.1 B ON MAR 27	0.085B ON MAR 8	158 000	1943
1944	---	34.0 ON AUG 6	0.074B ON FEB 10	234 000	1944
1945	89.1 AT 19:00 CST ON MAR 29	88.0 ON MAR 29	0.311B ON DEC 30	278 000	1945
1946	---	58.6 B ON MAR 24	0.085B ON DEC 29	138 000	1946
1947	37.4 AT 10:00 CST ON APR 11	36.5 ON APR 11	0.017B ON FEB 2	110 000	1947
1948	107 AT 08:30 CST ON APR 21	102 ON APR 21	0.142B ON FEB 8	225 000	1948
1949	142 AT 15:00 CST ON APR 22	139 ON APR 22	0.255B ON DEC 29	393 000	1949
1950	303 B AT 09:30 CST ON APR 20 *	218 B ON APR 20	0.198B ON JAN 31	555 000	1950
1951	56.6 B AT 13:00 CST ON APR 7	55.2 B ON APR 7	0.057B ON DEC 29	149 000	1951
1952	---	14.2 B ON APR 3	0.008 ON DEC 31	53 700	1952
1953	7.08 ON JUN 10	6.74 ON JUN 11	0 ON MAR 10	34 800	1953
1954	24.0 AT 18:00 CST ON JUL 7	23.6 ON JUL 7	0.008B ON FEB 8	159 000	1954
1955	76 E AT 18:00 CST ON APR 5	73.6 ON APR 5	0.227 ON JAN 21	264 000	1955
1956	147 AT 02:00 CST ON APR 27	136 ON APR 27	0.198 ON FEB 25	392 000	1956
1957	18.7 AT 22:30 CST ON MAR 27	17.0 ON MAR 27	0.142 ON MAR 11	98 900	1957
1958	12.5 AT 16:30 CST ON APR 7	10.5 ON APR 7	0.003B ON DEC 12	37 100	1958
1959	51.0 B AT 22:30 CST ON APR 5	48.1 B ON APR 5	0.003B ON JAN 7	79 400	1959
1960	114 B AT 10:00 CST ON APR 14	108 B ON APR 14	0 ON SEP 18	305 000	1960
1961	10.5 AT 21:00 CST ON APR 3	9.91 ON APR 3	0 ON AUG 29	44 100	1961
1962	103 B AT 14:30 CST ON APR 21	102 B ON APR 21	0 ON FEB 21	131 000	1962
1963	32.6 AT 00:20 CST ON JUL 28	24.5 ON JUL 28	0.003 ON MAR 9	90 800	1963
1964	30.6 B AT 16:30 CST ON APR 17	22.5 B ON APR 17	0.062B ON MAR 10	83 600	1964
1965	102 AT 00:00 CST ON APR 14	96.3 ON APR 14	0.054B ON MAR 29	190 000	1965
1966	122 B AT 10:00 CST ON APR 3	113 B ON APR 3	0.144B ON DEC 12	263 000	1966
1967	82.1 AT 13:00 CST ON APR 23	80.4 ON APR 23	0.065 ON DEC 28	186 000	1967
1968	20.8 AT 06:00 CST ON MAR 28	20.6 ON MAR 28	0.045 ON FEB 13	129 000	1968
1969	206 AT 13:45 CST ON APR 21	197 ON APR 22	0.340B ON JAN 28	481 000	1969
1970	200 AT 20:00 CST ON APR 27	180 ON APR 28	0.170B ON MAR 31	521 000	1970
1971	208 AT 12:30 CST ON APR 12	200 ON APR 12	0.340B ON FEB 19	410 000	1971
1972	72.2 AT 00:30 CST ON APR 16	66.0 B ON APR 15	0.113B ON DEC 21	259 000	1972
1973	6.34 ON MAR 27	6.06 ON MAR 27	0.078B ON JAN 5	46 900	1973
1974	282 AT 05:00 CST ON APR 28	282 ON APR 28 *	0.170B ON FEB 6	772 000	1974
1975	42.5 AT 03:00 CST ON MAY 18	42.2 ON MAY 16	0.153 ON MAR 14	208 000	1975
1976	125 AT 18:00 CST ON APR 19	124 ON APR 19	0.057B ON DEC 6	386 000	1976
1977	7.39 AT 09:00 CST ON MAY 21	6.83 ON MAY 21	0.057B ON JAN 1	23 400	1977
1978	---	95.7 B ON APR 11	0 B ON MAR 7	155 000	1978
1979	---	263 B ON APR 21	0.085B ON JAN 17	499 000	1979
1980	12.3 AT 07:00 CST ON APR 7	12.1 ON APR 7	0.057B ON DEC 25	31 900	1980
1981	8.07 AT 12:00 CST ON APR 1	7.39 ON APR 1	0.010B ON FEB 14	47 600	1981
1982	---	40.5 ON JUN 8	0 B ON FEB 8	178 000	1982
1983	---	45.3 B ON APR 9	0.014B ON DEC 31	148 000	1983
1984	8.83 AT 16:00 CST ON APR 7	7.05 ON APR 3	0 B ON JAN 24	39 700	1984
1985	49.6 B AT 17:00 CST ON MAR 20	48.7 B ON MAR 20	0 B ON JAN 12	157 000	1985
1986	---	52.3 B ON MAR 24	0.156B ON FEB 22	234 000	1986
1987	156 B AT 20:00 CST ON APR 7	130 B ON APR 7	0.199B ON FEB 5	266 000	1987
1988	11.9 AT 10:40 CST ON APR 6	11.2 ON APR 6	0.001E ON SEP 18	20 600	1988
				173 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO 05DB023

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	0	4.00	3.44	4.82	2.73	0.844	1.02	---	---	---	---	1962
1963	---	---	0.381	3.44	2.56	5.71	1.67	0.850	0.150	0.111	B 0.082	0.011	---	1963
1964	0	0	0.010	7.76	5.27	0.893	0.883	0.077	0.028	0.120	B 0.040	0.024	1.24	1964
1965	0.010	0.008	0.036	11.1	13.4	5.72	0.766	1.35	0.868	0.907	0.701	0.451	2.85	1965
1966	0.217	0	4.89	11.7	8.97	2.80	1.86	0.201	0.083	0.084	0.038	0.015	2.41	1966
1967	0.021	0.032	0.300	7.98	8.41	1.27	0.302	0.220	0.020	0.009	0.020	0.008	1.55	1967
1968	0	0	1.17	0.170	0.149	0.354	0.422	3.57	12.8	4.96	0.355	0.130	2.00	1968
1969	0.182	0.485	1.19	80.2	23.1	7.27	3.31	3.01	0.813	0.285	0.186	0.085	9.94	1969
1970	0.070	0.187	0.405	18.3	37.9	20.7	8.80	2.54	0.894	0.339	0.192	0.101	7.55	1970
1971	0.083	0.035	0.058	36.8	17.0	7.85	10.5	3.37	0.453	0.212	0.507	1.06	6.45	1971
1972	0.816	0.214	8.44	19.4	13.2	8.76	5.33	1.48	1.31	0.243	0.206	0.130	4.77	1972
1973	0.135	0.082	0.575	0.782	0.772	1.88	2.41	0.800	1.14	0.894	0.450	0.450	0.870	1973
1974	0.323	0.377	0.388	76.7	49.9	21.5	4.50	0.859	0.110	0.060	0.020	0.017	12.9	1974
1975	0.018	0.017	0.015	12.0	32.2	10.7	3.13	0.108	0.048	0.089	0.054	0.040	4.89	1975
1976	1.57	0.132	0.083	63.6	19.2	5.60	0.789	0.093	0.034	0.014	0.010	0.010	7.54	1976
1977	0.011	0.017	0.018	0.074	0.063	0.081	0.052	0.017	0.018	0.020	0.019	0.018	0.034	1977
1978	0.024	0.024	0.048	10.8	5.77	2.16	0.440	0.028	0.007	0.015	0.010	0.007	1.81	1978
1979	0.002	0.001	0.003	40.4	36.4	7.53	1.05	0.098	0.126	0.048	0.058	0.025	7.06	1979
1980	0.018	0.018	0.021	2.43	0.353	0.106	0.089	0.005	0.006	0.026	0.001	0.001	0.253	1980
1981	0.007	0.046	3.72	4.82	0.191	0.103	0.042	0.043	0.047	0.056	0.059	0.044	0.774	1981
1982	0.012	0.008	0.251	16.9	11.1	9.09	3.06	0.833	0.087	0.077	0.052	0.218	3.46	1982
1983	0.834	0.323	1.52	15.7	5.96	1.65	0.827	0.040	0.018	0.017	0.014	0.007	2.24	1983
1984	0.004	0.015	0.190	1.34	2.23	1.22	0.052	0.015	0.002	0.007	0.010	0.013	0.428	1984
1985	0.005	0.002	6.98	8.48	1.68	0.848	0.575	0.137	0.040	0.040	0.048	0.010	1.58	1985
1986	0.023	0.023	3.61	11.3	8.35	3.55	2.46	0.508	0.071	0.232	0.105	0.033	2.61	1986
1987	0.031	0.031	0.910	35.5	7.32	0.898	0.038	0.997	1.42	0.241	0.102	0.054	3.93	1987
1988	0.004	0.014	0.090	0.125	0.088	0.029	0.011	0	0.001	0.004	0.008	0.004	0.032	1988
MEAN	0.164	0.083	1.31	18.5	11.6	4.84	2.08	0.804	0.788	0.348	0.129	0.114	3.56	MEAN

LOCATION - LAT 49 13 18 N DRAINAGE AREA, 4 490 km²
LONG 99 02 03 W REGULATED SINCE 1940

PEMBINA RIVER BELOW CRYSTAL CREEK - STATION NO. 05DB023

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	10.8 B ON APR 18	0 B ON MAR 1 *	---	1962
1963	---	11.3 ON JUN 11	0 B ON MAR 1	---	1963
1964	---	11.5 ON APR 18	0 B ON JAN 1	39 200	1964
1965	---	20.7 ON APR 20	0.0068 ON FEB 1	83 100	1965
1966	---	23.1 B ON MAR 31	0 B ON JAN 31	78 200	1966
1967	---	15.3 ON APR 25	0 B ON DEC 19	49 000	1967
1968	---	16.9 ON SEP 9	0 B ON JAN 1	83 200	1968
1969	---	278 B ON APR 15	0.0688 ON JAN 1	313 000	1969
1970	---	78.7 ON MAY 15	0.0658 ON JAN 16	239 000	1970
1971	---	80.7 ON APR 12	0.0348 ON FEB 11	204 000	1971
1972	---	22.0 ON APR 14	0.1138 ON DEC 28	151 000	1972
1973	---	3.20 ON JUL 7	0.0718 ON FEB 15	27 400	1973
1974	---	317 ON APR 22 *	0.0108 ON NOV 14	408 000	1974
1975	---	59.5 ON MAY 4	0.011 ON SEP 15	154 000	1975
1976	---	118 B ON APR 8	0.0108 ON NOV 3	238 000	1976
1977	---	0.1228 ON APR 10	0.0098 ON JAN 1	1 070	1977
1978	---	16.8 B ON APR 11	0 ON SEP 10	50 700	1978
1979	---	167 ON APR 25	0.0018 ON JAN 20	223 000	1979
1980	---	4.80 A ON APR 9	0 ON JUL 30	8 010	1980
1981	12.1 AT 12:53 CST ON MAR 31	12.0 ON MAR 31	0.0018 ON JAN 1	24 400	1981
1982	27.8 AT 07:28 CST ON APR 19	27.8 ON APR 18	0.0088 ON FEB 16	109 000	1982
1983	22.1 AT 17:38 CST ON APR 8	21.8 ON APR 9	0.0048 ON DEC 28	70 800	1983
1984	3.26 AT 02:22 CST ON MAY 18	3.11 ON MAY 18	0.001 ON AUG 28	13 400	1984
1985	23.1 AT 08:25 CST ON MAR 23	22.5 ON MAR 23	0.0018 ON FEB 22	50 200	1985
1986	16.7 B AT 07:24 CST ON MAR 28	16.5 B ON MAR 28	0.0188 ON JAN 1	82 500	1986
1987	63.6 AT 14:36 CST ON APR 8 *	60.6 ON APR 8	0.021 ON AUG 4	124 000	1987
1988	0.423 AT 22:42 CST ON APR 8	0.3508 ON APR 3	0 ON AUG 8	1 000	1988
				112 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05DB008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	---	---	---	3.82	1.73	2.04	---	1957
1958	1.01	0.481	0.548	6.37	2.26	0.566	0.318	0.028	B 0.008	0.013	0.256	0.102	0.826	1958
1959	0.018	0	0.263	5.48	2.11	1.18	0.261	0.198	0.118	0.852	2.81	3.06	1.37	1959
1960	1.55	1.24	0.577	45.4	33.3	10.4	4.19	1.89	0.891	0.511	0.191	0.119	8.42	1960
1961	0.123	0.057	0.609	7.18	3.97	0.777	0.080	0.015	0.022	0.087	0	0	1.07	1961
1962	0	0	0.001	8.17	5.98	4.48	1.77	2.31	2.87	1.14	0.628	0.467	2.30	1962
1963	0.203	0	0.859	3.90	8.21	8.27	2.60	2.91	1.84	0.783	0.438	0.044	2.18	1963
1964	0	0	0.008	8.22	9.82	3.21	0.678	0.716	0.800	0.497	0.224	0.005	1.83	1964
1965	0	0	0	13.8	18.1	10.7	3.61	1.71	2.88	1.94	1.27	0.681	4.55	1965
1966	0.258	0	4.99	30.0	19.8	6.17	3.57	1.84	0.578	0.174	0.156	0.047	5.78	1966
1967	0.085	0.132	0.812	14.4	19.7	7.01	1.76	0.377	0.093	0.462	0.145	0.086	3.77	1967
1968	0	0	3.11	3.23	1.81	0.710	0.716	2.82	11.3	11.4	4.75	1.33	3.43	1968
1969	0.475	0.418	0.405	85.0	47.4	13.4	7.52	3.81	2.68	1.81	0.953	0.708	14.5	1969
MEAN	0.310	0.194	1.02	19.9	14.2	5.67	2.25	1.55	1.95	1.80	1.04	0.668	4.17	MEAN

LOCATION - LAT 49 03 30 N DRAINAGE AREA, 7 130 km²
LONG 98 27 50 W REGULATED

PEMBINA RIVER NEAR KALEIDA - STATION NO. 05OB005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	8.58 ON APR 6	0.008A ON SEP 2	26 000	1958
1959	15.08 AT 20:00 CST ON APR 5	14.2 B ON APR 5	0 B ON JAN 19 *	43 200	1959
1960	75.3 AT 08:00 CST ON APR 24 *	74.2 ON APR 24	0.0618 ON DEC 28	288 000	1960
1961	---	8.898 ON APR 18	0 ON OCT 27	33 800	1961
1962	38.2 AT 20:40 CST ON APR 20	34.6 ON APR 20	0 B ON JAN 1	72 800	1962
1963	---	8.44 ON JUN 5	0 B ON JAN 15	86 200	1963
1964	---	11.7 ON MAY 10	0 B ON JAN 1	96 000	1964
1965	---	35.1 B ON APR 14	0 B ON JAN 1	144 000	1965
1966	65.1B AT 01:30 CST ON APR 3	58.0 B ON APR 3	0 B ON FEB 1	183 000	1966
1967	48.7 AT 18:30 CST ON APR 23	40.5 ON APR 23	0 B ON DEC 30	119 000	1967
1968	---	15.1 ON SEP 27	0 B ON JAN 1	108 000	1968
1969	---	286 ON APR 19 *	0.3148 ON MAR 17	457 000	1969
				132 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05OA006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.803	0.158	0.064	0.085	0.001	0.335	0.010	0.836	---	---	0.267	1959
1960	---	---	0.258	5.08	2.14	0.525	0.027	0	0	0	---	---	0.982	1960
1961	---	---	0.711	0.344	0.138	0.012	0	0	0	0	---	---	0.151	1961
1962	---	---	0.044	1.83	0.220	1.19	0.036	0.031	0	0	---	---	0.411	1962
1963	---	---	0.481	0.627	0.521	0.988	0.014	0.009	0.006	0.002	---	---	0.354	1963
1964	---	---	0.002	2.39	0.651	0.431	0.138	0.005	0.010	0.020	---	---	0.450	1964
1965	---	---	0	3.16	1.26	0.592	0.420	0.154	0.209	0.113	---	---	0.732	1965
1966	---	---	1.15	1.07	1.80	0.332	0.748	0.084	0.002	0	---	---	0.650	1966
1967	---	---	0.028	0.873	0.840	0.146	0.003	0	0	0	---	---	0.210	1967
1968	---	---	0.096	0.176	0.098	0.033	0.026	0.492	0.738	0.107	---	---	0.220	1968
1969	---	---	0	8.83	1.15	0.427	2.00	0.111	0.008	0.017	---	---	1.55	1969
1970	---	---	0	2.88	3.39	0.188	0.038	0.008	0	0	---	---	0.810	1970
1971	---	---	0	2.26	0.363	1.04	0.834	0.001	0	0.388	---	---	0.815	1971
1972	---	---	3.06	3.88	1.25	2.51	0.216	0.075	0.050	0.019	---	---	1.37	1972
1973	---	---	0.310	0.187	0.778	1.44	0.309	0.277	0.214	0.284	---	---	0.467	1973
1974	---	---	0.003	12.1	4.91	0.580	0.075	0.074	0.007	0.044	---	---	2.21	1974
1975	---	---	0.014	7.61	2.82	1.25	0.086	0.031	0.409	0.823	---	---	1.82	1975
1976	---	---	1.03	9.88	0.540	0.116	0.005	0	0	0	---	---	1.42	1976
1977	---	---	0.104	0.113	0.158	0.042	0.130	0.022	0.003	0.005	---	---	0.072	1977
1978	---	---	0.029	1.23	0.733	0.331	0.048	0	0	0	---	---	0.284	1978
1979	---	---	0	7.06	1.70	0.398	0.018	0.001	0	0	---	---	1.13	1979
1980	---	---	0	0.714	0.008	0	0	0.110	0.077	0.186	---	---	0.133	1980
1981	---	0.800	0.271	0.158	0.141	0.252	0.071	0.075	0.018	0.020	---	---	0.126	1981
1982	---	---	0.443	2.43	0.428	0.137	0.035	0.007	0.002	0.038	---	---	0.435	1982
1983	---	---	0.941	1.48	0.598	0.131	0.046	0.001	0.001	0.001	---	---	0.398	1983
1984	---	---	0.357	0.271	0.518	0.051	0.005	0	0	0	---	---	0.151	1984
1985	---	---	2.84	0.503	0.081	0.010	0.018	0.109	0.005	0.027	---	---	0.485	1985
1986	---	---	1.03	1.25	1.52	0.061	0.074	0.027	0	0.003	---	---	0.497	1986
1987	---	---	2.14	1.42	0.081	0.015	0.001	0.043	0.001	0.002	---	---	0.487	1987
1988	---	---	0.028	0.236	0.085	0.012	0.001	0	0	0	---	---	0.042	1988
MEAN	---	0.800	0.543	2.89	0.952	0.444	0.184	0.069	0.058	0.098	---	---	0.825	MEAN

LOCATION - LAT 49 12 41 N DRAINAGE AREA, 354 km^2
LONG 99 44 35 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 3.80 AND 0 m^3/s OCCURRED IN FEB

PEMBINA RIVER NEAR KILLARNEY - STATION NO. 05DA008

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	2.83 B ON MAR 20	0 B ON MAR 1 *	8 070	1959
1960	---	13.1 ON APR 8	0 B ON MAR 1	21 000	1960
1961	---	4.67 B ON MAR 22	0 B ON MAR 1	3 200	1961
1962	---	18.2 ON JUN 18	0 B ON MAR 1	8 700	1962
1963	---	8.09 ON JUN 8	0 B ON MAR 1	7 480	1963
1964	---	8.41 ON APR 10	0 B ON MAR 1	8 520	1964
1965	---	10.7 ON APR 13	0 B ON MAR 1	15 500	1965
1966	---	8.01 ON JUL 4	0 B ON MAR 1	13 800	1966
1967	---	2.89 ON APR 29	0 B ON MAR 1	4 430	1967
1968	---	3.85 ON AUG 25	0 B ON MAR 1	4 650	1968
1969	39.1 AT 16:00 CST ON APR 12 *	38.0 R ON APR 11	0 B ON MAR 1	32 600	1969
1970	---	15.2 ON APR 27	0 B ON MAR 1	17 100	1970
1971	---	10.8 B ON APR 7	0 B ON MAR 1	13 000	1971
1972	---	15.8 B ON MAR 17	0 B ON MAR 1	29 100	1972
1973	---	9.00 ON JUN 18	0 B ON MAR 1	8 480	1973
1974	---	39.4 ON APR 21	0 ON JUL 25	46 800	1974
1975	---	37.1 ON APR 28	0.003 ON JUL 30	34 300	1975
1976	---	22.7 B ON APR 2	0 E ON JUL 23	30 100	1976
1977	---	0.823E ON MAY 19	0 ON AUG 28	1 830	1977
1978	---	3.40 E ON MAY 26	0 ON AUG 3	5 210	1978
1979	---	71.4 B ON APR 20 *	0 B ON MAR 1	23 900	1979
1980	---	3.34 B ON APR 5	0 B ON MAR 1	2 810	1980
1981	---	0.888 ON AUG 4	0 ON JUL 28	2 860	1981
1982	11.4 AT 07:15 CST ON APR 14	10.5 ON APR 14	0 B ON MAR 1	8 210	1982
1983	6.38B AT 11:51 CST ON MAR 14	5.19 B ON MAR 14	0.001 ON JUL 27	8 440	1983
1984	2.61 AT 11:36 CST ON MAY 5	2.42 ON MAY 5	0 ON JUL 9	3 190	1984
1985	19.2 B AT 08:45 CST ON MAR 20	15.4 B ON MAR 20	0 B ON MAR 1	9 840	1985
1986	7.07 AT 12:24 CST ON MAY 7	6.48 ON MAY 7	0 B ON MAR 1	10 500	1986
1987	15.1 B AT 07:17 CST ON MAR 22	12.9 B ON MAR 22	0 B ON MAR 1	10 300	1987
1988	1.53B AT 01:49 CST ON APR 4	1.48 B ON APR 4	0 B ON MAR 1	895	1988
				13 200	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05DB001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0.717	3.22	3.83	3.88	2.10	2.98	1.80	0.886	0.348	0.036	---	1963
1964	0	0	0	5.45	7.13	1.85	0.488	0.653	0.441	0.326	0.211	0.023	1.38	1964
1965	0.002	0	0	8.70	15.0	10.0	3.20	1.45	1.67	1.84	1.17	0.603	3.85	1965
1966	0.185	0	2.71	15.9	12.5	7.31	4.25	1.47	0.369	0.088	0.067	0.022	3.75	1966
1967	0.047	0.081	0.438	7.88	11.1	4.61	0.954	0.285	0.119	0.075	0.082	0.032	2.15	1967
1968	0	0	1.53	1.89	1.85	0.803	0.508	2.97	10.2	5.47	4.00	1.23	2.85	1968
1969	0.282	0.334	0.880	89.1	37.8	11.9	6.72	3.80	2.35	1.47	1.12	0.532	12.9	1969
1970	0.269	0.114	0.089	16.2	38.4	22.5	13.6	6.80	2.84	1.81	1.04	0.199	8.61	1970
1971	0.021	0.014	0.015	30.8	27.5	9.32	7.75	5.48	3.38	2.01	1.13	0.558	7.44	1971
1972	0.524	0.099	2.92	25.5	18.1	5.81	4.77	4.04	2.48	1.31	0.788	0.084	5.62	1972
1973	0.003	0.002	0.515	1.80	1.18	0.787	1.42	1.47	1.24	1.33	0.880	0.611	0.951	1973
1974	0.250	0.310	0.579	70.5	76.4	35.6	9.10	2.39	1.49	0.748	0.392	0.178	16.5	1974
1975	0.110	0.018	0.024	4.92	33.1	13.0	4.97	1.74	0.630	0.668	0.348	0.188	5.04	1975
1976	0.218	1.74	0.652	88.0	38.2	10.2	2.18	0.826	0.479	0.259	0.106	0.021	10.2	1976
1977	0.013	0.013	0.037	0.158	0.925	0.303	0.046	0.007	0.221	0.065	0.033	0.022	0.158	1977
MEAN	0.134	0.195	0.727	23.3	21.6	9.27	4.14	2.35	1.97	1.48	0.780	0.286	5.80	MEAN

LOCATION - LAT 49 13 50 N
LONG 98 41 20 W
DRAINAGE AREA, 5 320 km^2
REGULATED

PEMBINA RIVER NEAR LA RIVIERE - STATION NO. 05DB001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	4.87 ON MAY 3	0 B ON MAR 1 *	---	1963
1964	---	5.76 ON MAY 1	0 B ON JAN 1	43 700	1964
1965	---	16.0 ON MAY 5	0 B ON JAN 10	115 000	1965
1966	---	18.5 ON MAY 5	0 B ON JAN 26	114 000	1966
1967	---	21.3 ON APR 21	0 B ON DEC 24	87 800	1967
1968	---	13.5 ON SEP 23	0 B ON JAN 1	80 300	1968
1969	---	283 ON APR 18	0.221B ON JAN 6	408 000	1969
1970	47.6 AT 20:30 CST ON MAY 15	47.0 ON MAY 15	0.057B ON DEC 31	271 000	1970
1971	---	87.7 ON APR 24	0.011B ON MAR 10	235 000	1971
1972	---	37.4 B ON APR 10	0.006B ON DEC 31	178 000	1972
1973	4.84 AT 09:24 CST ON JUL 8	4.73 ON JUL 8	0.001B ON FEB 10	30 000	1973
1974	308 AT 07:51 CST ON APR 25 *	303 ON APR 25 *	0.142B ON FEB 3	521 000	1974
1975	48.7 AT 12:00 CST ON MAY 11	48.1 ON MAY 11	0.009B ON FEB 18	159 000	1975
1976	114 AT 13:15 CST ON APR 14	113 ON APR 14	0.014B ON DEC 28	321 000	1976
1977	6.55 AT 10:02 CST ON MAY 19	6.34 ON MAY 19	0 ON JUL 25	4 830	1977
				183 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	3.93	1.26	3.25	0.284	0.326	0.475	---	---	---	1921
1922	---	---	---	7.48	4.57	1.52	0.314	0.243	0.318	---	---	---	---	1922
1923	---	---	---	30.1	32.1	5.55	1.66	2.40	---	---	---	---	---	1923
1924	---	---	---	---	2.73	2.01	0.557	---	---	---	---	---	---	1924
1925	---	---	3.68	7.52	4.35	2.48	1.25	1.08	---	---	---	---	---	1925
1926	---	---	---	---	1.01	0.800	0.485	0.332	---	---	---	---	---	1926
1927	---	---	---	15.8	13.0	10.6	5.77	5.84	5.48	5.86	---	---	---	1927
1928	---	---	4.39	8.44	3.87	2.52	1.15	0.781	---	---	---	---	---	1928
1929	---	---	---	3.36	2.40	0.726	0.372	0.047	0.027	0.087	---	---	---	1929
1930	---	---	---	14.8	9.36	3.63	0.850	0.478	0.492	0.888	---	---	---	1930
1931	---	---	---	3.43	1.70	0.536	0.138	0.016	0.017	0.029	---	---	---	1931
1932	---	---	---	6.52	3.24	1.03	0.468	---	---	---	---	---	---	1932
1933	---	---	0.312	15.3	11.8	5.57	1.32	0.642	1.11	1.11	---	---	---	1933
1934	---	---	---	5.80	3.15	1.18	0.233	0.011	0.006	0.012	---	---	---	1934
1935	---	---	---	1.76	1.06	0.538	0.806	0.686	0.486	0.341	---	---	---	1935
1936	---	---	0	10.7	9.86	4.31	1.17	0.463	0.597	0.471	---	---	---	1936
1937	---	---	0	1.10	0.787	0.718	0.101	0.024	0.002	0.007	---	---	---	1937
1938	---	---	1.84	2.29	1.71	0.620	0.148	0.083	0.003	0.013	---	---	---	1938
1939	---	---	0.038	0.302	0.113	0.036	0.005	0	0	0	---	---	---	1939
1940	---	---	0	0.481	0.089	0.013	0.002	0.088	0.007	0	---	---	---	1940
1941	---	---	0	14.7	7.52	2.39	0.881	0.703	1.05	1.05	---	---	---	1941
1942	---	---	1.56	28.0	16.3	5.90	1.71	1.36	1.15	0.847	---	---	---	1942
1943	---	---	1.89	9.48	6.06	3.16	2.77	5.80	4.54	2.88	---	---	---	1943
1944	---	---	---	3.21	4.41	5.12	22.3	17.4	8.81	4.15	3.54	---	---	1944
1945	---	---	11.3	24.1	14.8	7.80	5.82	2.70	1.81	1.20	---	---	---	1945
1946	---	---	8.77	12.8	6.11	1.73	1.01	0.493	0.310	0.382	0.263	---	---	1946
1947	---	---	---	8.18	5.92	2.40	1.02	1.46	1.29	0.843	---	---	---	1947
1948	---	---	---	9.47	18.5	7.44	4.80	3.92	2.43	1.16	---	---	---	1948
1949	---	---	---	58.8	30.8	13.3	5.49	2.84	1.90	0.862	---	---	---	1949
1950	---	---	---	19.0	37.4	24.8	12.3	8.43	4.84	3.03	---	---	---	1950
1951	---	---	---	13.5	11.3	5.50	2.24	1.03	0.838	0.206	---	---	---	1951
1952	---	---	---	---	4.52	2.33	0.814	0.200	0.018	0.023	0.001	---	---	1952
1953	---	---	---	1.28	0.577	2.68	1.80	0.678	0.174	0.089	0.063	---	---	1953
1954	---	---	---	1.08	0.881	5.01	17.8	8.29	3.88	2.05	1.18	---	---	1954
1955	---	---	0.311	30.2	17.4	8.11	5.13	1.70	0.830	0.437	---	---	---	1955
1956	---	---	---	13.6	45.1	15.0	6.81	3.66	2.56	3.21	0.744	0.114	---	1956
1957	0.090	0.037	2.58	5.89	3.51	1.86	0.597	1.17	2.63	---	---	---	---	1957
MEAN	0.090	0.037	2.45	11.3	8.84	4.47	3.04	2.15	1.61	1.06	0.989	0.114	---	MEAN

LOCATION - LAT 49 08 50 N DRAINAGE AREA, 5 600 km²
LONG 98 33 45 W REGULATED

PEMBINA RIVER NEAR MANITOU - STATION NO. 05OB003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1921	---	21.4 ON JUL 6	---	---	1921
1922	---	19.3 E ON APR 4	---	---	1922
1923	---	88.5 E ON APR 19	---	---	1923
1924	---	---	---	---	1924
1925	---	24.6 E ON MAR 26	---	---	1925
1926	---	1.53 ON APR 24	---	---	1926
1927	---	25.2 ON APR 13	---	---	1927
1928	---	10.4 E ON MAR 24	---	---	1928
1929	---	5.24 ON APR 18	---	---	1929
1930	---	28.6 E ON APR 6	---	---	1930
1931	---	8.07E ON APR 5	---	---	1931
1932	---	18.4 E ON APR 8	---	---	1932
1933	---	---	---	---	1933
1934	---	11.2 E ON APR 7	0 ON OCT 1 *	---	1934
1935	---	4.81E ON APR 13	---	---	1935
1936	---	---	---	---	1936
1937	---	---	---	---	1937
1938	---	---	---	---	1938
1939	---	---	---	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	---	---	---	1943
1944	---	34.5 ON JUL 20	---	---	1944
1945	---	---	---	---	1945
1946	---	---	---	---	1946
1947	---	14.8 ON APR 4	---	---	1947
1948	---	33.7 ON APR 21	---	---	1948
1949	---	142 ON APR 17 *	---	---	1949
1950	---	75.3 B ON APR 17	---	---	1950
1951	---	18.2 ON APR 5	---	---	1951
1952	---	15.7 B ON APR 1	0 ON SEP 13	---	1952
1953	---	8.10 ON JUN 5	---	---	1953
1954	---	27.0 ON JUL 1	---	---	1954
1955	---	---	---	---	1955
1956	---	70.2 ON MAY 1	---	---	1956
1957	---	12.7 B ON MAR 23	---	---	1957
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	2.07	4.72	4.34	2.81	2.82	1.58	0.830	---	---	2.33	1982
1983	---	---	0.245	3.01	4.20	4.11	2.36	2.39	1.55	0.535	---	---	2.30	1983
1984	---	---	0	5.06	5.03	3.00	3.79	2.53	0.838	0.267	---	---	2.94	1984
1985	---	---	0	8.24	16.2	8.78	2.27	1.82	2.01	1.48	---	---	5.09	1985
1986	---	---	1.37	13.6	10.1	4.78	2.85	0.842	0.121	0.120	---	---	4.16	1986
1987	---	---	0.005	5.26	11.5	4.08	1.13	0.081	0.040	0.020	---	---	2.78	1987
1988	---	---	0.375	1.52	0.651	0.428	0.495	1.57	10.5	7.67	---	---	2.91	1988
1989	---	---	0	61.7	42.7	11.0	5.17	3.26	1.93	0.848	---	---	18.2	1989
1970	---	---	0.055	12.4	36.7	24.9	14.7	5.43	2.33	1.58	---	---	12.2	1970
1971	---	---	0.042	31.7	26.6	6.71	6.30	6.88	2.78	1.82	---	---	10.6	1971
1972	---	---	4.34	23.0	18.8	8.78	5.88	---	---	---	---	---	---	1972
MEAN	---	---	0.884	17.1	16.4	7.17	4.48	2.76	2.38	1.52	---	---	6.35	MEAN

LOCATION - LAT 49 21 17 N LONG 98 49 04 W DRAINAGE AREA, 4 980 km² REGULATED

PEMBINA RIVER NEAR OUTLET OF SWAN LAKE - STATION NO. 05OB019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	7.14 ON APR 24	0 B ON MAR 1 *	49 300	1982
1983	---	5.66 ON MAY 2	0 B ON MAR 1	46 700	1983
1984	---	9.91 ON MAY 7	0 B ON MAR 1	62 100	1984
1985	---	19.2 ON MAY 16	0 B ON MAR 1	108 000	1985
1986	---	16.5 ON APR 28	0 B ON MAR 1	88 200	1986
1987	---	15.7 ON MAY 7	0 B ON MAR 1	58 200	1987
1988	---	12.7 ON SEP 20	0 B ON MAR 1	81 700	1988
1989	---	259 ON APR 17 *	0 B ON MAR 1	385 000	1989
1970	---	44.2 ON MAY 12	0.0288 ON MAR 1	259 000	1970
1971	---	65.1 ON APR 16	0.0348 ON MAR 1	224 000	1971
1972	---	25.4 ON APR 16	0 B ON MAR 1	---	1972
				134 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	0.008	0.002	0.029	11.9	5.80	4.41	1.65	2.19	2.72	1.08	0.480	0.662	2.57	1962
1963	0.280	0	1.16	3.62	4.71	5.16	2.73	2.77	1.72	0.773	0.327	0.095	1.97	1963
1964	0.023	0	0	6.66	6.01	3.41	1.01	1.26	0.958	0.553	0.227	0.032	1.84	1964
1965	0	0	0	13.0	18.3	10.6	3.54	1.80	2.28	1.78	1.14	0.836	4.46	1965
1966	0.347	0.084	4.06	29.2	19.7	8.03	3.76	1.87	0.733	0.307	0.181	0.076	5.70	1966
1967	0.133	0.098	0.878	16.8	16.5	6.07	1.80	0.466	0.017	0.469	0.263	0.083	3.82	1967
1968	0.013	0	7.46	3.66	1.98	0.869	0.525	3.18	9.21	9.71	4.83	1.28	3.57	1968
1969	0.843	0.405	0.441	88.1	43.6	13.6	8.20	4.36	2.52	1.71	1.20	0.836	13.7	1969
1970	0.424	0.355	0.342	31.0	52.9	30.4	17.9	7.36	3.70	2.15	1.21	0.408	12.4	1970
1971	0.268	0.273	0.322	57.3	36.6	13.2	8.73	8.27	4.01	2.30	1.63	1.06	11.3	1971
1972	0.531	0.385	7.67	34.1	21.8	8.88	5.59	4.86	2.76	2.05	0.807	0.143	7.46	1972
1973	0.081	0.085	1.60	2.11	1.40	0.937	1.30	1.44	1.26	1.44	0.824	0.418	1.09	1973
1974	0.248	0.321	0.336	85.0	102	42.8	10.4	3.29	2.17	1.28	0.948	0.372	20.8	1974
1975	0.185	0.106	0.194	7.27	33.3	15.5	5.38	2.04	0.884	0.643	0.594	0.284	5.89	1975
1976	0.328	1.26	1.16	74.5	36.9	10.7	3.24	1.21	0.715	0.548	0.248	0.006	10.6	1976
1977	0	0	0.082	0.802	0.881	0.535	0.141	0.009	0.093	0.242	0.067	0.023	0.232	1977
1978	0.007	0	0.068	17.4	10.4	3.19	1.36	0.869	0.657	0.342	0.151	0.076	2.68	1978
1979	0.027	0.007	0.030	38.3	83.1	21.1	5.51	1.43	1.28	1.11	0.813	0.288	12.8	1979
1980	0.053	0.018	0.038	4.22	2.17	0.646	0.044	0.040	0.028	0.052	0.132	0.072	0.823	1980
1981	0	0.170	1.47	5.38	2.78	0.758	0.305	0.092	0.034	0.074	0.087	0.023	0.931	1981
1982	0	0	0.337	12.1	16.7	12.8	5.30	2.58	1.31	1.19	0.545	0.188	4.44	1982
1983	0.101	0.027	1.27	19.4	12.1	4.86	1.74	0.397	0.138	0.287	0.166	0.050	3.39	1983
1984	0.001	0.005	0.208	1.96	2.21	2.78	0.388	0.026	0.002	0.020	0.022	0.005	0.831	1984
1985	0	0	9.07	18.9	5.62	2.68	1.39	0.512	0.883	0.857	0.444	0.149	3.36	1985
1986	0.176	0.085	7.94	18.5	17.3	6.60	3.28	2.41	1.41	0.898	0.278	0.137	5.09	1986
1987	0.118	0.084	0.148	43.9	18.4	4.86	1.45	1.06	1.52	1.41	0.686	0.432	5.25	1987
1988	0.007	0.005	0.498	1.87	0.765	0.114	0.002	0	0	0	0	0	0.271	1988
MEAN	0.145	0.140	1.73	24.0	21.5	8.61	3.81	2.05	1.59	1.24	0.681	0.269	5.48	MEAN

LOCATION - LAT 49 01 53 N LONG 98 19 40 W DRAINAGE AREA, 7 500 km² REGULATED INTERNATIONAL GAUGING STATION

PEMBINA RIVER NEAR WINDYGATES - STATION NO. 05OB007

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1982	---	45.6 ON APR 21	0 B ON FEB 21 *	80 800	1982
1983	---	7.33 ON JUN 6	0 B ON JAN 28	82 100	1983
1984	---	9.15 ON MAY 10	0 B ON JAN 20	98 300	1984
1985	---	39.1 B ON APR 14	0 B ON JAN 1	141 000	1985
1986	---	46.1 B ON APR 3	0.0458 ON NOV 30	180 000	1986
1987	53.5 AT 09:00 CST ON APR 21	49.0 ON APR 21	0 ON SEP 11	120 000	1987
1988	21.1 B AT 07:20 CST ON MAR 24	18.7 B ON MAR 24	0 B ON JAN 23	113 000	1988
1989	231 AT 18:08 CST ON APR 19	228 ON APR 19	0.3058 ON MAR 5	433 000	1989
1990	108 AT 08:53 CST ON APR 28	104 ON APR 28	0.2048 ON DEC 31	392 000	1990
1991	---	187 B ON APR 10	0.1908 ON JAN 1	356 000	1991
1992	---	45.8 B ON APR 12	0.0548 ON DEC 31	236 000	1992
1993	4.11 AT 17:18 CST ON AUG 8	3.84 ON JUL 12	0.0288 ON JAN 8	34 400	1993
1994	328 AT 11:30 CST ON APR 28 *	317 ON APR 26 *	0.1708 ON JAN 14	858 000	1994
1995	42.6 AT 14:30 CST ON MAY 14	42.2 ON MAY 14	0.0688 ON FEB 5	178 000	1995
1996	118 AT 00:38 CST ON APR 17	116 ON APR 17	0 B ON DEC 7	343 000	1996
1997	4.33 AT 19:13 CST ON MAY 21	3.91 ON MAY 21	0 B ON JAN 1	T 320	1997
1998	---	30.9 B ON APR 9	0 B ON JAN 18	90 800	1998
1999	154 AT 17:58 CST ON MAY 2	152 ON MAY 2	0.0028 ON FEB 12	404 000	1999
1980	---	9.288 ON APR 5	0 B ON DEC 26	19 700	1980
1981	14.0 AT 22:02 CST ON MAY 22	8.12 ON MAY 23	0 B ON JAN 1	29 300	1981
1982	54.5 AT 18:55 CST ON JUN 6	44.9 ON JUN 6	0 B ON JAN 1	140 000	1982
1983	32.4 AT 00:00 CST ON APR 8	28.7 ON APR 8	0.0048 ON DEC 31	107 000	1983
1984	13.9 AT 02:31 CST ON JUN 15	8.61 ON JUN 15	0 B ON JAN 2	18 900	1984
1985	34.5 AT 13:29 CST ON APR 5	32.5 ON APR 5	0 B ON JAN 1	108 000	1985
1986	34.9 AT 21:32 CST ON MAR 28	32.4 ON MAR 29	0.0198 ON FEB 10	181 000	1986
1987	72.0 AT 11:29 CST ON APR 8	69.2 ON APR 8	0.0358 ON MAR 2	187 000	1987
1988	5.058 AT 08:32 CST ON APR 4	4.028 ON APR 4	0 B ON JAN 12	8 550	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		173 000	MEAN

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1921	---	---	---	---	0.072	0.051	0.005	0	0.006	---	---	---	---	1921
1925	---	---	---	1.20	0.245	2.34	---	---	---	---	---	---	---	1925
1926	---	---	---	---	---	---	---	---	---	0.077	---	---	---	1926
1927	---	---	5.29	3.34	8.52	1.89	1.84	0.423	0.057	0.082	0.042	---	---	1927
1928	---	---	1.98	0.457	0.208	1.82	4.29	0.198	0.088	---	---	---	---	1928
MEAN	---	---	3.64	1.67	1.76	1.53	1.98	0.207	0.044	0.080	0.042	---	---	MEAN

LOCATION - LAT 49 13 45 N DRAINAGE AREA, 418 km^2
LONG 98 38 50 W NATURAL FLOW

PEMBINA RIVER NORTH OF KILLARNEY - STATION NO. 05OA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1921	---	---	0 E ON JUL 9 *	---	1921
1925	---	---	---	---	1925
1926	---	---	---	---	1926
1927	---	22.6 ON MAY 13 *	0.003 ON SEP 23	---	1927
1928	---	19.7 ON JUL 10	---	---	1928
	E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	---	---	---	---	181	128	78.1	43.1	28.7	22.8	---	1957
1958	21.8	22.1	21.1	22.5	31.5	62.0	90.1	93.6	82.2	65.0	48.7	84.0	55.6	1958
1959	74.1	54.7	27.8	25.1	177	345	248	148	101	74.8	85.8	83.4	122	1959
1960	65.2	48.1	34.7	32.2	85.7	136	130	87.8	70.3	72.2	62.8	53.2	71.7	1960
1961	49.0	43.0	35.0	34.0	53.0	89.7	79.8	52.4	27.9	23.5	21.0	27.7	44.7	1961
1962	37.2	35.2	28.7	24.7	28.5	96.9	145	99.3	70.7	60.8	78.3	73.7	67.0	1962
1963	65.2	53.9	41.8	37.7	61.3	207	190	116	67.4	38.5	31.3	26.8	80.1	1963
1964	27.8	27.1	25.6	25.3	65.5	181	141	85.8	61.3	50.4	57.8	63.8	67.8	1964
1965	61.8	54.4	38.8	38.2	85.2	151	195	133	102	96.6	87.8	84.4	93.2	1965
1966	71.3	58.9	45.8	44.0	79.1	190	236	180	105	59.8	44.5	44.8	86.9	1966
1967	45.9	44.9	38.5	42.7	71.5	176	215	125	66.3	41.7	32.3	27.2	77.5	1967
1968	25.1	24.6	22.6	28.6	47.6	103	225	224	195	198	183	153	120	1968
1969	108	78.0	66.4	61.8	80.7	169	182	218	230	295	262	181	161	1969
1970	117	88.9	52.1	44.2	53.8	73.1	138	107	80.9	66.2	74.2	106	82.1	1970
1971	112	80.4	54.8	54.7	140	206	134	109	106	81.2	58.3	53.5	99.3	1971
1972	65.4	54.2	44.3	52.3	104	186	132	81.6	55.1	50.2	49.7	64.2	77.4	1972
1973	65.9	44.1	37.2	43.6	73.5	123	125	86.5	68.6	78.0	103	122	80.3	1973
1974	90.4	67.9	54.6	56.0	122	254	227	130	110	152	127	85.3	123	1974
1975	63.0	51.0	41.0	41.4	66.4	157	195	168	148	125	87.8	58.6	100	1975
1976	47.6	40.8	34.5	56.1	74.1	93.1	77.1	47.6	29.2	19.3	14.4	11.5	45.4	1976
1977	10.3	10.1	11.2	14.4	16.4	35.3	55.8	54.5	118	176	141	95.5	61.7	1977
1978	64.9	43.7	32.3	36.6	61.3	106	156	191	187	181	132	94.8	108	1978
1979	73.4	56.7	43.8	54.0	135	300	199	108	86.5	78.1	76.3	74.0	107	1979
1980	70.4	55.8	42.2	44.9	57.2	80.3	89.3	61.8	61.2	48.2	42.4	47.5	58.3	1980
1981	46.1	37.5	30.6	34.0	40.0	61.1	111	101	74.8	62.8	58.5	78.8	62.3	1981
1982	72.1	57.7	44.3	54.0	111	216	207	144	84.5	74.4	53.8	45.3	88.0	1982
1983	41.6	35.8	32.2	35.0	58.7	80.2	123	127	87.8	65.4	36.4	25.8	62.7	1983
1984	27.4	28.8	25.4	26.6	58.4	117	147	109	70.5	57.4	58.8	57.8	67.2	1984
1985	58.1	58.1	48.2	---	---	---	186	212	169	158	125	102	---	1985
1986	84.2	61.2	46.8	57.7	149	226	141	81.6	---	---	---	---	---	1986
1987	65.4	56.7	49.1	64.7	135	148	92.9	65.7	53.0	33.7	26.7	19.9	67.3	1987
1988	12.2	9.89	12.7	18.5	33.1	52.0	67.6	46.5	31.5	24.9	19.1	16.7	29.0	1988
MEAN	59.0	47.3	37.2	40.2	77.5	148	152	116	83.2	65.9	76.1	67.7	82.3	MEAN

LOCATION - LAT 52 01 49 N
LONG 85 23 37 W NATURAL FLOW

PIGEON RIVER AT OUTLET OF ROUND LAKE - STATION NO. 05RD004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	---	---	---	1957
1958	---	86.6 ON AUG 11	20.2 ON MAR 27	1 780 000	1958
1959	---	378 ON JUN 8 o	18.7 ON APR 8	3 840 000	1959
1960	---	155 ON JUN 23	27.5 ON APR 19	2 270 000	1960
1961	---	95.1 ON JUN 16	20.7 ON NOV 6	1 410 000	1961
1962	---	159 ON JUL 8	19.7 ON MAY 1	2 110 000	1962
1963	---	224 ON JUN 21	28.8 ON DEC 1	2 530 000	1963
1964	---	194 ON JUN 11	25.3 ON MAR 19	2 140 000	1964
1965	---	216 ON JUL 3	33.1 A ON MAR 20	2 840 000	1965
1966	255 AT 16:30 CST ON JUL 4	250 ON JUL 4	37.6 R ON APR 11	3 080 000	1966
1967	---	255 A ON JUL 1	25.8 R ON DEC 30	2 450 000	1967
1968	---	238 ON JUL 21	20.4 P ON APR 8	3 790 000	1968
1969	---	308 E ON OCT 17	43.9 ON APR 7	5 070 000	1969
1970	156 AT 07:46 CST ON JAN 1	153 ON JAN 1	39.2 ON APR 13	2 590 000	1970
1971	---	224 A ON JUN 3	45.6 E ON APR 8	3 120 000	1971
1972	202 AT 15:23 CST ON JUN 13	200 ON JUN 13	16.1 R ON NOV 8	2 450 000	1972
1973	151 AT 16:30 CST ON JUN 25	151 ON JUN 30	34.3 E ON APR 9	2 530 000	1973
1974	300 AT 11:30 CST ON JUN 25	297 ON JUN 23	41.5 R ON APR 15	3 880 000	1974
1975	206 AT 12:14 CST ON JUN 30	206 ON JUN 30	35.0 R ON APR 12	3 170 000	1975
1976	101 AT 21:10 CST ON JUN 27	100 ON JUN 28	10.9 R ON DEC 30	1 440 000	1976
1977	182 AT 11:30 CST ON OCT 17	182 ON OCT 14	9.74 ON JAN 19	1 950 000	1977
1978	197 AT 00:42 CST ON AUG 8	197 ON AUG 7	28.3 R ON APR 7	3 400 000	1978
1979	318 AT 21:45 CST ON JUN 14 o	317 ON JUN 14	38.1 ON APR 13	3 380 000	1979
1980	101 AT 14:47 CST ON JUN 22	101 ON JUN 21	36.0 R ON APR 6	1 870 000	1980
1981	119 AT 21:44 CST ON JUL 30	119 ON JUL 31	26.3 ON MAR 25	1 860 000	1981
1982	---	251 E ON JUN 28	39.6 R ON APR 10	3 090 000	1982
1983	139 AT 17:42 CST ON JUN 27	139 ON JUN 27	24.3 R ON DEC 24	1 860 000	1983
1984	163 AT 04:08 CST ON JUL 22	151 ON JUL 22	24.4 P ON MAR 18	2 130 000	1984
1985	228 AT 13:19 CST ON AUG 6	225 ON AUG 6	43.0 ON APR 2	---	1985
1986	250 AT 18:32 CST ON JUN 11	249 ON JUN 11	---	---	1986
1987	---	158 E ON MAY 28	18.1 R ON DEC 27	2 120 000	1987
1988	72.0 AT 11:48 CST ON JUL 15	71.5 ON JUL 15	9.20E ON FEB 22 o	817 000	1988
				2 600 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
o - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1986

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	0	0.031	0.007	0.085	0	0	0	0	---	---	0.015	1963
1964	---	---	0	0.421	0.028	0	0	0	0	0	---	---	0.065	1964
1965	---	---	0	0.584	0.122	0.008	0	0	0	0	---	---	0.058	1965
1966	---	---	0.451	0.824	0.283	0.014	0.034	0.003	0	0	---	---	0.185	1966
1967	---	---	0.004	0.601	0.311	0	0	0	0.052	0	---	---	0.120	1967
1968	---	---	0.194	0.108	0.017	0.007	0.029	0.285	0.330	0.075	---	---	0.131	1968
1969	---	---	0	4.85	0.520	0.409	0.332	0.003	0.021	0	---	---	0.731	1969
1970	---	---	0	1.59	1.05	0.336	0.041	0.002	0.026	0	---	---	0.385	1970
1971	---	---	0	1.30	0.312	0.152	0.250	0.013	0.159	0.057	---	---	0.277	1971
1972	---	---	0.548	1.11	0.426	0.066	0.012	0.015	0.003	0.001	---	---	0.271	1972
1973	---	---	0.015	0.006	0.011	0.003	0	0	0	0	---	---	0.004	1973
1974	---	---	0	3.75	2.62	0.389	0.017	0.001	0.001	0.001	---	---	0.841	1974
1975	---	---	0	0.410	0.203	0.044	0.004	0	0	0	---	---	0.082	1975
1976	---	---	0	2.18	0.178	0.003	0	0.001	0.002	0.004	---	---	0.281	1976
1977	---	---	0.001	0.002	0	0	0	0.002	0.002	0.001	---	---	0.001	1977
1978	---	---	0	0.436	0.042	0.001	0.001	0.001	0.001	0.001	---	---	0.059	1978
1979	---	---	0	2.58	0.686	0.038	0.003	0	0	0.001	---	---	0.434	1979
1980	---	---	0	0.050	0	0	0.005	0	0	0	---	---	0.007	1980
1981	---	---	0.119	0.004	0.002	0.009	0.003	0.004	0.002	0	---	---	0.018	1981
1982	---	---	0.033	0.295	0.013	0	0	0.010	0	0	---	---	0.043	1982
1983	---	---	0.227	0.283	0.001	0.001	0.007	0	0	0	---	---	0.065	1983
1984	---	---	0.001	0.024	0.006	0.003	0.013	0.007	0.002	0.001	---	---	0.007	1984
1985	---	---	0.670	0.488	0.030	0	0	0	0	0	---	---	0.148	1985
1986	---	---	0.304	0.381	0.114	0	0.002	0	0.015	0	---	---	0.103	1986
1987	---	---	0	1.61	0.084	0.002	0	0	0	0	---	---	0.208	1987
1988	---	---	0.007	0.017	0	0	0.004	0	0	0	---	---	0.004	1988
MEAN	---	---	0.099	0.917	0.278	0.060	0.029	0.013	0.024	0.005	---	---	0.176	MEAN

LOCATION - LAT 49 12 34 N, LONG 98 57 05 W. DRAINAGE AREA, 147 km². REGULATED

PILOT CREEK NEAR PILOT MOUND - STATION NO. 05OB025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	0.374 ON JUN 6	0.0 ON MAR 1 *	319	1963
1964	---	0.748 ON APR 9	0.0 ON MAR 1	1 170	1964
1965	---	1.88 B ON APR 12	0.0 ON MAR 1	1 680	1965
1966	---	1.82 B ON APR 1	0.0 ON MAR 1	4 160	1966
1967	---	1.43 ON APR 21	0.0 ON MAR 1	2 540	1967
1968	---	1.70 ON AUG 24	0.0 ON MAR 1	2 760	1968
1969	---	15.0 B ON APR 11	0.0 ON MAR 1	15 500	1969
1970	---	3.86 ON APR 25	0.0 ON MAR 1	8 250	1970
1971	---	4.53 ON APR 8	0.0 ON MAR 1	5 860	1971
1972	---	2.26 ON APR 12	0.0 ON MAR 1	5 740	1972
1973	---	0.048 ON MAY 10	0.0 ON MAR 1	93.1	1973
1974	---	22.7 ON APR 21 *	0.0 ON MAR 1	17 800	1974
1975	---	1.29 ON APR 29	0.0 ON MAR 1	1 730	1975
1976	---	5.32 ON APR 6	0.0 ON MAR 1	6 170	1976
1977	---	0.024 ON AUG 9	0.0 ON MAR 1	21.8	1977
1978	---	1.72 B ON APR 6	0.0 ON MAR 1	1 240	1978
1979	---	14.3 ON APR 23	0.0 ON MAR 1	9 170	1979
1980	---	0.3778 ON APR 7	0.0 ON MAR 1	143	1980
1981	---	0.524 ON MAR 17	0.0 ON MAR 1	386	1981
1982	1.65 AT 19:13 CST ON APR 12	1.47 ON APR 12	0.0 ON MAR 1	917	1982
1983	2.20 AT 09:00 CST ON JUL 27	1.47 B ON APR 1	0.0 ON MAR 1	1 370	1983
1984	2.92 AT 09:15 CST ON AUG 15	0.361 ON APR 10	0.0 ON MAR 1	151	1984
1985	3.728 AT 05:29 CST ON MAR 23	3.09 B ON MAR 23	0.0 ON MAR 1	3 150	1985
1986	3.028 AT 22:26 CST ON MAR 22	1.41 B ON MAR 22	0.0 ON MAR 1	2 170	1986
1987	9.068 AT 03:48 CST ON APR 6 *	7.49 B ON APR 6	0.0 ON MAR 1	4 360	1987
1988	2.01 AT 09:19 CST ON JUL 6	0.126 ON JUL 6	0.0 ON MAR 1	75.2	1988
				3 730	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PF049

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1908	---	---	---	---	176	157	157	158	160	162	---	---	162	1908
1909	---	---	---	---	183	150	156	148	157	175	---	---	162	1909
1910	---	---	---	---	312	270	187	159	159	175	---	---	207	1910
1911	---	---	---	---	246	262	272	276	272	233	---	---	260	1911
1912	---	---	---	---	270	283	---	---	---	---	---	---	---	1912
1914	---	---	---	---	---	294	299	290	275	272	---	---	---	1914
1915	---	---	---	---	---	294	299	296	267	258	260	---	---	1915
MEAN	---	---	---	---	237	244	225	221	215	213	260	---	198	MEAN

LOCATION - LAT 50 09 45 N, LONG 95 52 05 W. REGULATED

DATA CONTRIBUTED BY - CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

PINAWA CHANNEL BELOW CONTROL DAM - STATION NO. 05PP048

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1908	---	189 ON MAY 1	153 ON JUN 8	2 570 000	1908
1909	---	214 ON MAY 14	123 ON AUG 8 *	2 570 000	1909
1910	---	317 ON MAY 15 *	155 ON AUG 13	3 290 000	1910
1911	---	276 ON JUL 20	200 ON OCT 29	4 130 000	1911
1912	---	289 ON JUN 4	251 ON MAY 1	---	1912
1914	---	---	---	---	1914
1915	---	---	---	---	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		3 140 000	MEAN

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05OD027

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1953	---	---	---	---	---	---	---	---	---	---	---	---	---	1953
1958	---	---	---	---	---	---	---	---	---	---	---	---	---	
1959	0.189	0.180	0.868	1.89	2.18	1.15	0.788	0.441	0.348	0.385 1.83	0.378 0.628	0.467 0.283	--- 0.872	1958 1959
1960	0.187	0.186	0.635	3.32	1.18	1.37	0.426	0.312	0.183	0.361	0.568	0.177	0.737	1960
1961	0.082	0.144	0.265	1.19	0.959	0.254	0.251	0.095	0.259	0.479	0.319	0.126	0.388	1961
1962	0.013	0.049	0.249	2.11	3.77	3.16	0.121	0.307	0.257	0.214	0.215	0.214	0.891	1962
1963	0.058	0.083	1.83	2.78	1.26	3.18	0.272	0.135	0.141	0.183	0.400	0.148	0.855	1963
1964	0.085	0.014	0.117	1.84	2.10	1.59	0.656	0.230	0.872	1.02	0.388	0.178	0.722	1964
1965	0.120	0.106	0.056	1.87	3.35	1.26	2.27	0.343	1.06	1.84	0.885	0.426	1.11	1965
1966	0.178	0.144	0.197	3.44	3.05	0.541	0.591	0.339	0.428	0.527	0.292	0.223	0.832	1966
1967	0.198	0.052	0.508	4.66	1.61	0.453	0.169	0.262	0.153	0.327	0.241	0.238	0.736	1967
1968	0.315	0.241	0.863	1.74	1.24	2.32	2.36	1.76	1.45	0.788	0.838	0.174	1.16	1968
1969	0.202	0.220	0.242	3.84	1.06	1.77	0.619	0.362	0.338	0.588	0.342	0.373	0.826	1969
1970	0.278	0.223	0.265	2.31	4.38	1.59	0.252	0.174	0.384	0.478	0.615	0.291	0.860	1970
1971	0.104	0.157	0.227	2.66	1.28	0.812	0.395	0.237	0.227	0.408	0.593	0.224	0.609	1971
1972	0.183	0.113	0.080	1.78	1.09	0.207	0.113	0.175	0.424	0.375	0.371	0.126	0.417	1972
1973	0.178	0.174	0.713	0.672	0.523	0.643	0.234	0.261	0.641	0.600	0.403	0.238	0.442	1973
1974	0.144	0.196	0.200	3.01	2.57	0.607	0.124	0.632	0.386	0.493	0.337	0.212	0.764	1974
1975	0.234	0.261	0.281	2.33	1.33	1.42	0.493	0.221	0.280	0.288	0.246	0.154	0.827	1975
1976	0.173	0.188	0.570	2.02	0.443	0.905	0.231	0.112	0.120	0.154	0.126	0.108	0.428	1976
1977	0.100	0.113	0.424	0.872	0.865	0.293	0.271	0.162	0.748	0.526	0.578	0.288	0.438	1977
1978	0.222	0.182	0.188	2.78	0.751	0.228	0.277	0.228	0.308	0.278	0.221	0.151	0.484	1978
1979	0.141	0.188	0.267	3.35	1.49	0.635	0.273	0.181	0.173	0.178	0.273	0.162	0.606	1979
1980	0.168	0.180	0.183	1.22	0.288	0.147	0.150	0.192	0.389	0.435	0.243	0.185	0.307	1980
1981	0.123	0.154	0.188	0.446	0.812	1.17	0.243	0.247	1.39	1.24	0.553	0.328	0.575	1981
1982	0.156	0.054	0.448	2.85	1.09	0.547	0.508	0.316	0.268	1.43	0.536	0.710	0.747	1982
1983	0.174	0.093	1.01	1.52	1.46	0.819	0.216	0.266	0.235	0.363	0.437	0.559	0.598	1983
1984	0.373	0.313	0.463	1.20	0.578	1.64	0.355	0.147	0.112	0.532	0.339	0.783	0.589	1984
1985	0.277	0.104	0.587	0.629	1.07	1.42	0.343	0.720	0.941	0.551	0.388	0.203	0.617	1985
1986	0.196	0.187	1.39	2.81	2.32	0.253	0.508	0.221	0.313	0.383	0.266	0.208	0.767	1986
1987	0.205	0.230	0.803	2.48	0.878	0.383	0.232	0.134	0.132	0.225	0.218	0.189	0.614	1987
1988	0.128	0.115	0.141	0.711	0.454	0.291	0.585	0.141	0.145	0.184	0.221	0.184	0.274	1988
MEAN	0.171	0.165	0.469	2.15	1.52	1.03	0.478	0.312	0.428	0.551	0.388	0.268	0.680	MEAN

LOCATION - LAT 49 01 25 N
LONG 95 58 40 W
DRAINAGE AREA, 157 km^2
REGULATED

PINE CREEK DIVERSION NEAR PINEY - STATION NO. 05BD027

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1953	---	---	0.30388 ON DEC 8	---	1953
1956	---	---	---	---	1956
1959	---	4.45 ON MAY 7	0.042 ON JUL 31	27 500	1959
1960	---	13.3 ON APR 14	0.0578 ON JAN 8	23 300	1960
1961	---	2.13 ON APR 24	0.0288 ON JAN 28	11 800	1961
1962	---	10.4 ON JUN 10	0.0088 ON JAN 28	26 100	1962
1963	---	7.38 ON JUN 9	0.0238 ON JAN 31	27 000	1963
1964	---	4.88 ON MAY 10	0.0088 ON FEB 19	22 800	1964
1965	---	11.4 ON MAY 6	0.0428 ON MAR 25	34 900	1965
1966	---	10.3 ON APR 9	0.088 ON JUL 29	26 200	1966
1967	---	17.6 B ON APR 21 *	0.0068 ON FEB 25	23 300	1967
1968	---	7.98 ON JUL 17	0.0518 ON MAR 2	38 700	1968
1969	---	7.678 ON APR 9	0.178 ON AUG 23	26 100	1969
1970	---	8.85 ON MAY 27	0.102 ON AUG 15	29 600	1970
1971	---	8.06 ON APR 19	0.0858 ON JAN 25	18 200	1971
1972	---	4.64 ON APR 21	0.025 ON AUG 30	13 200	1972
1973	---	2.52 ON SEP 26	0.037 ON JUL 22	13 900	1973
1974	9.09 AT 05:30 CST ON APR 21	8.89 ON APR 21	0.018 ON AUG 5	23 500	1974
1975	5.01 AT 05:50 CST ON APR 17	4.79 ON APR 17	0.1448 ON DEC 5	18 800	1975
1976	3.74 AT 00:56 CST ON APR 7	3.45 ON APR 8	0.062 ON AUG 7	13 500	1976
1977	3.34 AT 08:13 CST ON SEP 25	3.11 ON SEP 25	0.0988 ON JAN 8	13 800	1977
1978	6.518 AT 17:04 CST ON APR 8	6.038 ON APR 9	0.1368 ON DEC 31	15 300	1978
1979	16.4 B AT 18:03 CST ON APR 19 *	14.3 B ON APR 18	0.1188 ON JAN 14	18 200	1979
1980	2.58 AT 13:38 CST ON APR 7	2.448 ON APR 7	0.098 ON AUG 2	8 700	1980
1981	11.6 AT 01:28 CST ON SEP 8	11.1 ON SEP 8	0.118 ON AUG 20	18 100	1981
1982	8.308 AT 22:37 CST ON APR 15	7.288 ON APR 16	0.0138 ON FEB 8	23 800	1982
1983	4.98 AT 13:04 CST ON MAY 13	4.87 ON MAY 13	0.0048 ON FEB 8	18 800	1983
1984	9.14 AT 02:24 CST ON JUN 10	8.41 ON JUN 9	0.0018 ON MAR 10 *	18 000	1984
1985	8.93 AT 17:52 CST ON SEP 4	8.80 ON JUN 26	0.0868 ON FEB 18	19 500	1985
1986	10.3 AT 05:23 CST ON MAY 1	9.78 ON MAY 1	0.121 ON AUG 18	23 900	1986
1987	6.03 AT 03:05 CST ON APR 8	5.85 ON APR 8	0.0808 ON MAR 17	15 200	1987
1988	6.88 AT 13:47 CST ON JUL 7	5.65 ON JUL 7	0.0978 ON DEC 13	8 880	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986		20 800	MEAN

PINE CREEK NEAR MELBOURNE - STATION NO. 05LL014

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0.117	1.06	0.858	0.298	0.444	0.161	0.362	0.160	---	---	---	1965
1966	---	---	0.474	0.814	0.414	0.172	0.090	0.140	0.125	0.148	---	---	---	1966
1967	---	---	0.132	1.04	0.314	0.178	0.088	0.064	0.051	0.142	---	---	---	1967
1968	---	---	0.328	0.363	0.317	0.162	0.204	0.288	0.271	0.300	---	---	---	1968
1969	---	---	0.119	1.20	0.484	0.424	0.487	0.169	0.184	0.243	0.196	0.152	---	1969
1970	0.135	0.140	0.161	1.81	0.765	0.545	0.312	0.105	0.230	0.220	0.253	0.126	0.362	1970
1971	0.124	0.138	0.170	0.783	0.415	0.368	0.281	0.119	0.110	0.289	0.239	0.130	0.265	1971
1972	0.138	0.116	0.316	0.803	0.319	0.278	0.172	0.122	0.114	0.161	0.145	0.085	0.230	1972
1973	0.088	0.087	0.185	0.210	0.318	0.298	0.205	0.118	0.148	0.200	0.168	0.118	0.178	1973
1974	0.084	0.106	0.118	1.86	0.567	0.226	0.084	0.063	0.108	0.159	0.190	0.144	0.269	1974
1975	0.118	0.113	0.125	0.787	0.425	0.225	0.085	0.188	0.205	0.211	0.154	0.118	0.228	1975
1976	0.129	0.135	0.154	1.88	0.210	0.243	0.091	0.088	0.075	0.103	0.132	0.098	0.258	1976
1977	0.122	0.136	0.203	0.201	0.790	0.320	0.302	0.143	0.275	0.213	0.197	0.184	0.258	1977
1978	0.164	0.134	0.308	0.848	0.438	0.235	0.278	0.160	0.170	0.197	0.204	0.168	0.284	1978
1979	0.157	0.147	0.171	1.97	0.773	0.344	0.127	0.121	0.072	0.154	0.238	0.168	0.368	1979
1980	0.146	0.146	0.161	0.448	0.177	0.118	0.109	0.275	0.151	0.227	0.185	0.110	0.188	1980
1981	0.097	0.185	0.198	0.160	0.196	0.244	0.096	0.125	0.122	0.196	0.185	0.110	0.159	1981
1982	0.093	0.106	0.146	0.533	0.245	0.167	0.335	0.105	0.185	0.241	0.14	0.118	0.202	1982
1983	0.110	0.102	0.133	1.58	0.300	0.242	0.189	0.071	0.096	0.205	0.197	0.118	0.278	1983
1984	0.094	0.118	0.218	0.275	0.286	0.284	0.125	0.088	0.077	0.167	0.169	0.102	0.167	1984
1985	0.084	0.087	0.439	0.302	0.136	0.178	0.084	0.365	0.198	0.198	0.137	0.117	0.186	1985
1986	0.102	0.107	0.585	0.820	0.497	0.171	0.139	0.163	0.160	0.240	0.249	0.164	0.267	1986
1987	0.159	0.188	0.284	0.763	0.153	0.100	0.102	0.136	0.085	0.182	0.165	0.148	0.207	1987
1988	0.090	0.105	0.184	0.209	0.217	0.114	0.135	0.054	0.058	0.058	0.077	0.077	0.115	1988
MEAN	0.118	0.127	0.226	0.839	0.381	0.247	0.189	0.143	0.145	0.192	0.181	0.126	0.236	MEAN

LOCATION - LAT 49 54 00 N DRAINAGE AREA, 294 km^2
LONG 99 12 30 W NATURAL FLOW

PINE CREEK NEAR MELBOURNE - STATION NO 05LL014

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	4.11 B ON APR 14	---	---	1965
1966	---	3.14 ON APR 1	---	---	1966
1967	---	5.52 ON APR 10	---	---	1967
1968	---	1.57 ON MAR 26	---	---	1968
1969	---	5.66 E ON APR 13	---	---	1969
1970	13.2 AT 14 22 CST ON APR 26	9.94 ON APR 27	0.040 ON AUG 28	12 100	1970
1971	4.13 AT 23 48 CST ON APR 7	3.37 ON APR 8	0.074 ON AUG 28	8 370	1971
1972	3.14 AT 23 14 CST ON APR 10	2.76 ON APR 11	0.052 ON SEP 4	7 280	1972
1973	0.719 AT 02 59 CST ON MAY 7	0.697 ON MAY 7	0.058 ON JUL 23	5 630	1973
1974	10.9 AT 17 45 CST ON APR 18	9.66 ON APR 18	0.024 ON AUG 18 *	9 120	1974
1975	3.79 AT 15 10 CST ON APR 15	2.97 ON APR 15	0.032 ON JUL 15	7 200	1975
1976	10.6 AT 18 18 CST ON APR 7	8.58 ON APR 6	0.045 ON AUG 7	8 150	1976
1977	6.12 AT 20 15 CST ON MAY 19	3.88 ON MAY 20	0.057 ON AUG 24	8 150	1977
1978	6.29 AT 12 07 CST ON APR 7	3.54 ON APR 7	0.035 ON AUG 23	8 540	1978
1979	20.1 AT 16 20 CST ON APR 21 *	14.4 ON APR 21 *	0.030A ON AUG 31	11 400	1979
1980	1.31 AT 11 05 CST ON APR 7	1.10 ON AUG 21	0.068 ON AUG 2	5 940	1980
1981	0.670 AT 08 15 CST ON JUN 25	0.512 ON JUN 25	0.068 ON JUL 21	5 020	1981
1982	1.79 AT 10 51 CST ON APR 17	1.37 ON APR 18	0.046 ON AUG 6	5 370	1982
1983	8.68 AT 17 51 CST ON APR 9	6.81 ON APR 10	0.051 ON AUG 19	8 780	1983
1984	0.958 AT 04 03 CST ON JUN 15	0.755 ON JUN 15	0.037 ON AUG 28	5 270	1984
1985	2.65 B AT 13 21 CST ON MAR 27	1.73 B ON MAR 28	0.039 ON APR 18	N 190	1985
1986	4.15 AT 11 42 CST ON MAR 30	3.74 ON MAR 30	0.074 ON JUL 25	N 430	1986
1987	3.77 AT 10 24 CST ON APR 6	3.82 ON APR 6	0.055 ON JUN 25	N 540	1987
1988	0.848 AT 02 47 CST ON JUL 7	0.512 ON APR 7	0.030 ON SEP 13	N 940	1988
				7 510	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD032

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	0.781	0.431	0.423	0.828	0.280	---	1928
1929	0.142	0.085	0.544	1.66	1.05	0.803	0.331	0.178	0.277	0.388	0.572	---	---	1929
1930	---	---	---	2.34	3.13	1.24	1.71	0.147	0.185	0.412	0.918	---	---	1930
1931	---	---	---	2.01	1.20	0.402	0.248	0.273	0.388	0.517	0.812	---	---	1931
1932	---	---	---	2.77	1.36	0.409	0.483	0.314	0.324	0.652	---	---	---	1932
1933	---	---	---	3.34	2.66	0.826	0.186	0.111	0.187	0.173	0.254	---	---	1933
1934	---	---	---	0.980	0.504	0.522	0.183	0.128	0.167	0.456	---	---	---	1934
1935	---	---	---	1.90	1.08	0.582	0.726	0.333	0.316	0.317	---	---	---	1935
1936	---	---	---	3.01	0.861	0.622	0.132	0.089	0.247	0.198	0.178	0.100	---	1936
1937	---	---	---	2.70	2.49	0.470	1.16	0.501	0.245	0.304	---	---	---	1937
1938	---	---	0.817	1.62	3.23	0.811	0.227	0.157	0.112	0.171	0.172	---	---	1938
1939	---	---	---	0.526	0.536	0.530	0.127	0.128	0.141	0.202	0.204	---	---	1939
1940	---	---	---	0.640	0.738	0.603	0.204	0.142	0.231	0.302	0.761	0.247	---	1940
1941	0.188	0.151	0.187	2.65	0.595	1.30	0.208	0.166	4.45	1.71	0.384	0.215	1.01	1941
1942	0.082	0.186	1.86	3.23	2.32	0.881	0.276	0.799	2.07	0.559	0.372	0.197	0.943	1942
1943	0.186	0.197	0.189	3.34	2.53	3.33	0.727	0.296	0.372	0.356	0.382	0.178	1.00	1943
1944	0.146	0.198	0.170	1.74	1.65	2.84	0.504	1.88	1.11	0.579	1.82	0.322	1.02	1944
1945	0.226	0.208	3.15	2.31	1.73	0.807	1.58	0.838	3.17	0.781	0.436	0.226	1.29	1945
1946	0.223	0.213	1.86	1.53	1.27	0.471	0.821	0.176	0.408	0.808	0.389	0.246	0.868	1946
1947	0.246	0.260	0.275	1.37	1.86	3.33	0.303	0.805	1.02	1.31	0.486	0.313	0.821	1947
1948	0.271	0.238	0.310	4.81	1.45	0.678	1.22	1.34	0.228	0.250	0.384	0.288	0.855	1948
1949	0.288	0.248	0.294	3.24	1.67	0.542	0.457	0.471	0.258	1.02	0.778	0.308	0.780	1949
1950	0.243	0.245	0.314	3.85	5.19	2.13	1.61	0.414	2.43	1.85	0.548	0.308	1.87	1950
1951	0.263	0.230	0.209	3.23	1.80	0.485	0.222	0.709	0.830	0.626	0.312	0.202	0.757	1951
1952	0.152	0.148	0.184	0.851	0.668	0.893	0.836	0.238	0.155	0.240	0.326	0.217	0.401	1952
1953	0.192	0.191	0.386	1.03	1.83	1.33	0.137	0.028	0.106	---	---	---	---	1953
MEAN	0.188	0.195	0.863	2.23	1.74	1.05	0.583	0.425	0.763	0.577	0.516	0.244	0.863	MEAN

LOCATION - LAT 48 59 35 N, LONG 95 55 04 W
DRAINAGE AREA, 197 km^2
NATURAL FLOW
INTERNATIONAL GAUGING STATION

PINE CREEK NEAR PINE CREEK - STATION NO. 05OD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	3.268 ON APR 8	---	---	1929
1930	---	12.7 ON MAY 13	---	---	1930
1931	8.48 AT 21 30 CST ON APR 7	8.00 ON APR 7	---	---	1931
1932	7.368 AT 23 00 CST ON APR 10	6.898 ON APR 10	---	---	1932
1933	14.2 AT 12 00 CST ON MAY 26	13.0 ON MAY 26	---	---	1933
1934	---	1.888 ON APR 8	---	---	1934
1935	4.08 AT 17 30 CST ON APR 27	3.45 ON APR 27	---	---	1935
1936	14.6 AT 13 00 CST ON APR 17	12.7 ON APR 17	---	---	1936
1937	13.8 AT 23 00 CST ON MAY 1	13.1 ON MAY 1	---	---	1937
1938	10.3 AT 11 00 CST ON MAY 10	10.0 ON MAY 10	---	---	1938
1939	1.38 AT 16 00 CST ON APR 27	1.36 ON APR 27	---	---	1939
1940	1.87 ON MAY 1	1.56 ON APR 30	---	---	1940
1941	20.0 AT 12 00 CST ON SEP 25 *	18.8 ON SEP 25 *	0.0318 ON DEC 31	31 800	1941
1942	13.1 AT 20 00 CST ON APR 29	11.6 ON APR 30	0 8 ON JAN 6 *	28 700	1942
1943	11.3 AT 01 00 CST ON APR 9	11.0 ON APR 9	0.1258 ON MAR 18	31 500	1943
1944	7.73 AT 07 00 CST ON JUN 8	7.50 ON JUN 8	0.1258 ON JAN 5	32 100	1944
1945	15.1 AT 04 00 CST ON MAR 28	14.2 ON MAR 28	0.1988 ON JAN 28	40 800	1945
1946	---	7.50E ON MAR 22	0.139 ON AUG 6	21 700	1946
1947	16.7 AT 18 00 CST ON JUN 11	14.6 ON JUN 11	0.215 ON JUL 23	28 000	1947
1948	---	16.7 ON APR 19	0.201 ON SEP 29	30 200	1948
1949	10.8 AT 20 00 CST ON APR 10	9.06 ON APR 10	0.170 ON OCT 4	24 600	1949
1950	17.9 AT 04 00 CST ON APR 24	14.3 ON APR 24	0.2278 ON JAN 23	52 800	1950
1951	7.70E ON APR 6	7.38E ON APR 7	0.138 ON JUL 26	23 800	1951
1952	2.76 AT 13 00 CST ON JUL 5	2.72 ON JUL 5	0.130 ON SEP 21	12 700	1952
1953	3.65 AT 20 00 CST ON MAY 13	3.45 ON MAY 13	0 ON AUG 19	---	1953
				30 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.783	2.58	1.75	0.734	0.450	0.301	0.625	1.47	---	---	1.46	1959
1960	---	---	0.142	8.58	1.85	0.931	0.443	0.440	0.378	0.501	---	---	2.78	1960
1961	---	---	0.972	2.26	1.72	0.524	0.301	0.138	0.348	0.469	---	---	1.38	1961
1962	---	---	0.118	3.57	1.60	1.46	0.454	0.385	0.337	0.613	---	---	1.67	1962
1963	---	---	1.23	1.94	1.20	2.38	0.980	0.426	0.373	0.497	---	---	1.68	1963
1964	---	---	0.142	2.84	1.45	1.18	0.788	0.392	0.611	0.868	---	---	1.38	1964
1965	---	---	0.335	5.81	1.79	1.41	0.855	0.401	1.04	0.703	---	---	2.32	1965
1966	---	---	0.665	3.20	1.84	0.805	0.515	0.762	0.740	0.850	---	---	1.62	1966
1967	---	---	0.107	4.05	1.29	0.573	0.404	0.240	0.153	0.892	---	---	1.52	1967
1968	---	---	1.14	2.00	1.19	0.497	0.562	1.17	0.828	0.678	---	---	1.20	1968
1969	---	---	0.012	5.18	1.78	1.14	2.19	0.633	0.433	0.782	---	---	2.00	1969
1970	---	---	0.391	7.21	4.65	1.48	1.32	0.526	0.990	0.723	---	---	3.42	1970
1971	---	---	0.544	4.44	1.89	1.67	1.17	0.383	0.328	1.22	---	---	2.12	1971
1972	---	---	1.00	3.15	1.67	1.37	0.811	0.620	0.360	0.441	---	---	1.79	1972
1973	---	---	0.540	0.663	1.60	1.22	0.845	0.676	0.508	0.721	---	---	1.01	1973
1974	---	---	0.011	6.96	4.00	0.867	0.237	0.137	0.478	0.485	---	---	2.84	1974
1975	---	---	0.473	3.48	2.32	0.963	0.381	1.35	1.73	0.786	---	---	1.80	1975
1976	---	---	0.584	8.50	0.858	0.841	0.281	0.152	0.218	0.775	---	---	2.68	1976
1977	---	---	0.861	1.28	2.30	1.11	0.804	0.565	1.28	0.857	---	---	1.34	1977
1978	---	---	0.388	3.60	1.67	1.16	---	---	---	---	---	---	1.67	1978
1979	---	---	0.463	8.14	4.44	1.45	---	---	---	---	---	---	3.80	1979
1980	---	---	0.462	1.84	0.852	0.388	---	---	---	---	---	---	0.801	1980
1981	---	0.276	0.707	0.868	0.853	0.988	---	---	---	---	---	---	0.676	1981
1982	---	---	0.507	3.01	1.22	0.800	---	---	---	---	---	---	1.38	1982
1983	---	---	0.361	5.84	1.42	1.11	---	---	---	---	---	---	2.11	1983
1984	---	---	0.884	1.45	1.27	0.975	---	---	---	---	---	---	1.14	1984
1985	---	---	1.14	1.42	0.837	0.734	---	---	---	---	---	---	1.03	1985
1986	---	---	2.09	3.85	3.28	0.544	---	---	---	---	---	---	2.44	1986
1987	---	---	0.918	4.07	0.564	0.279	---	---	---	---	---	---	1.45	1987
1988	---	---	0.189	1.01	1.10	0.359	---	---	---	---	---	---	0.668	1988
MEAN	---	0.276	0.598	3.75	1.81	1.00	0.719	0.508	0.619	0.712	---	---	1.78	MEAN

LOCATION - LAT 50 03 40 N
LONG 98 56 49 W
DRAINAGE AREA, 635 km^2
NATURAL FLOW

PINE CREEK NEAR PINE CREEK STATION - STATION NO. 05LL007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	7.180 ON MAR 30	0.1130 ON MAR 1	15 400	1959
1960	---	32.3 ON APR 12	0.1420 ON MAR 1	29 400	1960
1961	---	3.65 ON APR 23	0.2830 ON MAR 1	14 500	1961
1962	---	13.1 ON APR 20	0.1130 ON MAR 1	17 600	1962
1963	---	6.26 ON JUN 11	0.1700 ON MAR 1	17 700	1963
1964	---	5.570 ON APR 14	0.1420 ON MAR 1	14 800	1964
1965	---	43.6 ON APR 14	0.2830 ON MAR 1	24 500	1965
1966	---	10.6 B ON APR 1	0.2100 ON MAR 1	17 100	1966
1967	---	8.980 ON APR 15	0.0850 ON MAR 1	15 000	1967
1968	---	5.520 ON MAR 28	0.292 ON JUN 28	12 700	1968
1969	---	29.7 ON APR 14	0.0048 ON MAR 26	21 100	1969
1970	---	40.5 ON APR 28	0.3910 ON MAR 1	36 000	1970
1971	---	13.3 ON APR 10	0.5440 ON MAR 1	22 400	1971
1972	---	6.430 ON APR 12	0 B ON MAR 1 *	18 800	1972
1973	---	3.85 ON MAY 7	0.0388 ON MAR 1	10 800	1973
1974	---	28.1 ON APR 20	0.0118 ON MAR 1	31 000	1974
1975	---	10.5 B ON APR 16	0.4738 ON MAR 1	19 000	1975
1976	---	21.5 B ON APR 8	0.364 ON JUN 4	28 300	1976
1977	---	5.80 ON MAY 22	0.215 ON JUN 11	14 100	1977
1978	---	7.080 ON APR 11	0.3148 ON MAR 1	17 800	1978
1979	---	44.3 B ON APR 22 *	0.8288 ON MAR 1	38 000	1979
1980	---	3.230 ON APR 8	0.247 ON JUN 21	9 490	1980
1981	1.57 AT 10:10 CST ON JUN 17	1.37 ON JUN 19	0.5268 ON MAR 8	9 250	1981
1982	---	7.808 ON APR 15	0.4258 ON MAR 1	14 500	1982
1983	---	17.8 B ON APR 10	0.3068 ON MAR 25	22 200	1983
1984	3.238 AT 06:23 CST ON MAR 27	3.168 ON MAR 27	0.4128 ON MAR 1	12 100	1984
1985	3.398 AT 14:14 CST ON MAR 31	3.268 ON MAR 24	0.1258 ON MAR 1	10 900	1985
1986	11.7 AT 12:00 CST ON MAY 6	11.0 ON MAY 6	0.4048 ON MAR 19	25 800	1986
1987	13.0 AT 13:18 CST ON APR 8 *	12.0 ON APR 8	0.178 ON JUN 30	15 300	1987
1988	3.508 AT 15:19 CST ON APR 6	2.988 ON APR 6	0.0408 ON MAR 1	7 040	1988
				18 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05MG003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	3.25	0.528	---	---	---	---	---	---	---	1936
1943	---	---	---	23.0	1.73	1.24	0.387	0.104	0.058	0.086	---	---	---	1943
1944	---	---	0	0.480	0.247	0.857	0.801	0.171	0.180	0.097	---	---	---	1944
1945	---	---	1.35	1.02	0.523	0.812	0.917	0.150	0.030	0.107	---	---	---	1945
1946	---	---	---	7.89	0.758	0.335	2.52	0.181	0.036	0.328	---	---	---	1946
1947	---	---	0	14.7	2.55	7.71	3.81	0.584	0.318	0.244	---	---	---	1947
1948	---	---	---	---	---	10.2	1.81	0.983	0.580	0.188	---	---	---	1948
1949	---	---	0	7.85	0.781	2.52	0.400	0.408	0.051	0.222	---	---	---	1949
1950	---	---	0.668	11.3	5.90	2.58	3.28	3.32	0.574	0.386	---	---	---	1950
1951	---	---	0	11.6	8.77	0.828	0.667	0.238	0.248	0.581	---	---	---	1951
1952	---	---	0.269	6.73	0.983	0.486	0.515	0.136	0.879	0.185	---	---	---	1952
1953	---	---	---	8.10	1.61	12.0	4.32	0.785	0.121	0.317	---	---	---	1953
1954	---	---	0	3.50	2.47	14.8	24.0	2.44	2.48	4.63	2.71	---	---	1954
1955	---	---	---	23.9	30.8	16.5	7.64	1.07	1.25	0.143	---	---	---	1955
1956	---	---	---	17.5	7.16	1.96	3.08	0.747	0.223	1.51	1.37	1.06	---	1956
1957	1.02	1.02	1.55	5.34	2.33	0.771	0.426	0.170	3.00	1.78	0.335	0.069	1.48	1957
1958	0.005	0.001	1.11	6.52	0.898	0.072	0.110	0.027	0.020	0.580	0.254	0	0.795	1958
1959	0	0	0.634	0.546	0.133	0.045	0.023	0.005	0.252	0.115	0.111	0.045	0.159	1959
1960	0	0	0.011	6.81	0.638	0.367	0.144	0.118	0.133	1.05	0.373	0.113	0.813	1960
1961	0.048	0.047	0.407	0.721	0.236	0.073	0.022	0.003	0.002	0.005	0.038	0.058	0.138	1961
1962	0.085	0.057	0.058	0.862	0.078	0.427	0.090	0.226	0.007	0	0	0	0.155	1962
1963	0	0	1.29	0.597	0.405	0.896	0.899	0.469	0.251	0.280	0.442	0.320	0.497	1963
1964	0.245	0.096	0.037	6.03	2.96	0.796	0.210	0.200	0.488	0.783	0.422	0.125	1.03	1964
1965	0.083	0.082	0.117	8.18	0.612	0.816	2.22	0.295	1.25	1.14	0.436	0.383	1.30	1965
1966	0.178	0.024	0.782	7.19	1.95	0.944	0.320	0.238	0.306	0.393	0.283	0.421	1.08	1966
1967	0.478	0.805	0.804	6.28	2.23	0.170	0.064	0.017	0.016	0.077	0.033	0.040	0.889	1967
1968	0.182	0.166	2.59	1.32	0.183	0.015	0.004	0.034	0.076	0.054	0.050	0.088	0.386	1968
1969	0	0	0	20.0	2.28	0.835	2.83	0.553	0.135	0.304	1.22	0.339	2.37	1969
1970	0.155	0.419	0.495	10.6	10.1	1.53	0.833	0.442	0.647	0.585	0.543	0.387	2.23	1970
1971	0.351	0.207	0.303	4.87	0.935	0.722	0.536	0.110	0.901	0.777	0.301	0.183	0.852	1971
1972	0.087	0.075	5.17	7.27	1.08	0.593	0.156	0.229	0.362	0.552	0.300	0.082	1.33	1972
1973	0.023	0.048	0.378	0.428	0.327	0.069	0.142	0.102	0.331	0.721	0.248	0.178	0.251	1973
1974	0.108	0.122	0.150	23.8	9.98	2.42	0.510	0.134	0.062	0.486	0.428	0.271	3.20	1974
1975	0.188	0.037	0.009	8.06	15.5	4.10	0.678	0.438	4.58	3.75	1.78	0.646	3.41	1975
1976	0.456	0.807	0.556	65.1	8.10	10.4	2.47	0.466	1.87	1.84	0.473	0.313	7.78	1976
1977	0.253	0.220	0.325	0.828	0.276	0.093	0.059	0.018	0.068	0.123	0.058	0.082	0.208	1977
1978	0.044	0.037	0.080	3.87	0.491	0.118	0.214	0.026	0.151	0.287	0.082	0.032	0.450	1978
1979	0.012	0.010	0.009	8.81	8.21	0.856	0.340	0.059	0.024	0.405	0.137	0.042	1.59	1979
1980	0.012	0.008	0.034	3.35	0.148	0.040	0.248	0.031	0.010	0.042	0.288	0.077	0.351	1980
1981	0.084	0.058	1.02	0.321	0.045	0.015	0.002	0.002	0.001	0.003	0.006	0.003	0.128	1981
1982	0	0	0.013	8.28	0.867	0.100	0.010	0.005	0.008	0.311	0.031	0.032	0.805	1982
1983	0.068	0.070	0.077	12.4	3.64	1.23	0.151	0.016	0.860	0.032	0.021	0.061	1.54	1983
1984	0.018	0.087	1.43	0.751	0.286	0.029	0.004	0.002	0.115	0.158	0.053	0.010	0.247	1984
1985	0.002	0.002	1.78	7.75	1.45	0.121	0.061	0.618	0.202	0.380	0.240	0.188	1.07	1985
1986	0.335	0.314	5.81	2.32	3.38	1.26	0.294	0.035	0.027	0.416	0.801	0.047	1.26	1986
1987	0.052	0.048	1.71	7.73	0.251	0.131	0.079	0.018	0.059	0.703	0.094	0.065	0.907	1987
1988	0.011	0.001	0.543	0.198	0.042	0.028	0.003	0.001	0.002	0.002	0.001	0.001	0.031	1988
MEAN	0.141	0.137	0.780	8.80	3.38	2.02	1.45	0.347	0.497	0.583	0.404	0.173	1.21	MEAN

LOCATION - LAT 49 35 40 N DRAINAGE AREA, 4 200 km^2
LONG 100 56 30 W REGULATED

REMARKS - SOME FLOW WILL BYPASS THE GAUGE AT VERY HIGH STAGES. DATA PRIOR TO 1958 WERE PUBLISHED UNDER STATION NO. 05MG005

PIPESTONE CREEK NEAR PIPESTONE - STATION NO. 05NG003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1943	---	55.4 ON APR 10	---	---	1943
1944	---	2.94 ON JUN 28	0 B ON MAR 1 *	---	1944
1945	---	4.08 B ON MAR 23	---	---	1945
1946	---	28.2 B ON APR 1	0 ON SEP 21	---	1946
1947	---	36.2 ON JUN 27	0 B ON MAR 1	---	1947
1948	---	37.1 ON APR 23	---	---	1948
1949	---	26.1 ON APR 12	0 B ON MAR 1	---	1949
1950	---	32.3 ON APR 20	---	---	1950
1951	---	30.0 ON MAY 7	0 B ON MAR 1	---	1951
1952	---	18.0 ON APR 10	---	---	1952
1953	---	32.0 ON JUN 10	0 ON SEP 20	---	1953
1954	---	84.0 ON JUL 11	---	---	1954
1955	---	74.2 ON MAY 7	---	---	1955
1956	---	44.2 ON APR 19	---	---	1956
1957	---	6.27 B ON APR 8	0 ON AUG 18	46 700	1957
1958	---	20.1 B ON APR 5	0 B ON JAN 7	25 100	1958
1959	---	2.94 ON SEP 7	0 B ON JAN 1	5 040	1959
1960	---	20.8 B ON APR 14	0 B ON JAN 1	25 700	1960
1961	---	0.868B ON APR 11	0 ON AUG 18	4 360	1961
1962	---	4.16 ON AUG 11	0 ON OCT 1	4 910	1962
1963	---	9.51 B ON MAR 23	0 B ON JAN 1	15 700	1963
1964	---	19.3 B ON APR 16	0.023 ON AUG 6	32 400	1964
1965	---	25.8 ON APR 19	0.051 ON AUG 22	41 100	1965
1966	---	24.1 B ON APR 6	0 B ON MAR 2	34 100	1966
1967	---	23.0 B ON APR 15	0.006 ON AUG 30	28 000	1967
1968	---	6.94 B ON MAR 26	0 ON JUN 20	12 500	1968
1969	---	113 A ON APR 15	0 B ON JAN 1	74 600	1969
1970	---	28.7 A ON MAY 1	0.051B ON JAN 13	70 400	1970
1971	---	15.8 B ON APR 12	0.008 ON AUG 27	26 800	1971
1972	---	20.4 B ON MAR 25	0.028B ON DEC 31	41 800	1972
1973	2.01 AT 21:40 CST ON OCT 21	1.88 ON SEP 27	0.014B ON JAN 10	7 810	1973
1974	74.2 AT 08:00 CST ON APR 23 *	73.1 ON APR 23	0.040 ON SEP 25	101 000	1974
1975	55.2 AT 15:22 CST ON APR 30	54.1 ON APR 30	0 ON SEP 17	107 000	1975
1976	---	153 B ON APR 12 *	0.232 ON AUG 23	248 000	1976
1977	1.57 AT 08:45 CST ON APR 16	1.50 ON APR 16	0.004 ON AUG 29	8 500	1977
1978	---	8.75 B ON APR 13	0.017 ON SEP 3	14 200	1978
1979	51.2 B AT 08:17 CST ON APR 28	47.9 B ON APR 28	0.005B ON APR 7	50 000	1979
1980	---	10.4 B ON APR 13	0.006 ON SEP 15	11 100	1980
1981	---	1.87 B ON MAR 16	0 ON AUG 11	4 080	1981
1982	37.6 AT 12:14 CST ON APR 15	34.6 ON APR 15	0 B ON JAN 1	25 400	1982
1983	34.4 AT 17:27 CST ON APR 26	33.6 ON APR 26	0.002B ON DEC 13	48 800	1983
1984	6.75 B AT 08:00 CST ON MAR 25	6.63 B ON MAR 25	0 B ON JAN 22	7 820	1984
1985	24.5 B AT 10:55 CST ON APR 8	22.5 B ON APR 8	0.001B ON FEB 11	33 800	1985
1986	18.6 B AT 11:52 CST ON MAR 23	14.5 B ON MAR 23	0.009 ON AUG 23	29 500	1986
1987	27.1 B AT 09:30 CST ON APR 8	23.7 B ON APR 8	0.003 ON AUG 5	28 800	1987
1988	0.386 AT 09:11 CST ON APR 8	0.385 ON APR 8	0 B ON MAR 3	982	1988
				38 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

PIPESTONE CREEK NEAR THE SASKATCHEWAN BOUNDARY - STATION NO. 05NG024

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	0.002	0.400	0.033	0.088	---	1982
1983	0.088	0.036	0.055	12.1	3.04	0.561	0.028	0.129	0.436	0.001	0.002	0.272	1.38	1983
1984	0.113	0.073	0.262	0.098	0.020	0.001	0	0.060	0.219	0.076	0.005	0.003	0.078	1984
1985	0	0	0.847	8.05	1.16	0.088	0.008	0.084	0.180	0.260	0.355	0.263	0.937	1985
1986	0.208	0.278	5.44	1.80	3.18	0.695	0.210	0.036	0.041	0.476	0.711	0.041	1.17	1986
1987	0.015	0.017	1.65	5.18	0.058	0.017	0.048	0.014	0.190	0.298	0.011	0.004	0.620	1987
1988	0	0	0.098	0.146	0.038	0.001	0	0	0.010	0.139	0.024	0.002	0.038	1988
MEAN	0.088	0.087	1.56	4.63	1.25	0.226	0.049	0.055	0.154	0.235	0.163	0.096	0.704	MEAN

LOCATION - LAT 49 50 28 N, LONG 101 23 48 W DRAINAGE AREA, 3 660 km^2, REGULATED

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	E	0.572	0.335	E.004	E	E	E	E.024	---	---	0.116	1964
1965	---	---	0	1.04	0.384	0.208	0.038	0.011	0.161	0.133	---	---	0.248	1965
1966	---	---	0.098	1.89	1.49	0.185	0.183	0.008	0.004	0.002	---	---	0.477	1966
1967	---	---	0	0.982	1.38	0.072	0.004	0.001	0	0.034	---	---	0.310	1967
1968	---	---	0.421	0.868	0.080	0.012	0.023	0.032	0.011	0.006	---	---	0.180	1968
1969	---	---	0	2.40	0.175	0.040	0.548	0.383	0.023	0.229	---	---	0.470	1969
1970	---	---	0 010	2.33	3.01	0.418	0.401	0.208	0.010	0.087	---	---	0.808	1970
1971	---	---	0 040	2.26	0.331	1.87	0.681	0.160	0	0.021	---	---	0.881	1971
1972	---	---	0.044	0.892	0.841	0.246	0.115	0.403	0.811	0.291	---	---	0.453	1972
1973	---	---	0.037	0.031	0.009	0.025	0.004	0.002	0.026	0.058	---	---	0.024	1973
1974	---	---	0	0.647	4.83	2.53	0.186	0.011	0.014	0.028	---	---	1.01	1974
1975	---	---	0.252	1.39	2.07	1.20	0.184	0.080	0.788	0.620	---	---	0.812	1975
1976	---	---	0.218	2.77	1.34	1.51	0.612	0.270	0.383	0.038	---	---	0.883	1976
1977	---	---	0.099	0.050	0.048	0.005	0.011	0.003	0.023	0.870	---	---	0.153	1977
1978	---	---	0.210	0.824	0.543	0.167	0.159	0.078	0.007	0.006	---	---	0.248	1978
1979	---	---	0.048	1.82	3.47	1.27	0.087	0.028	0.001	0.060	---	---	0.855	1979
1980	---	---	0.184	0.344	0.007	0.024	0	0.132	0.002	0.139	---	---	0.104	1980
1981	---	---	0.259	0.116	0.015	0.007	0.171	0	0.043	0.189	---	---	0.102	1981
1982	---	---	0.180	0.245	0.016	0.002	0	0.002	0.055	0.293	---	---	0.087	1982
1983	---	---	0.230	0.873	0.285	0.566	0.327	0.078	0.024	0.141	---	---	0.286	1983
1984	---	---	0.227	0.154	0.030	0.012	0.146	0.027	0.197	0.078	---	---	0.108	1984
1985	---	---	0.221	0.652	0.038	0.057	0.028	0.076	0.100	0.469	---	---	0.205	1985
1986	---	---	0.545	1.51	1.61	0.511	0.174	0.074	0.284	0.227	---	---	0.615	1986
1987	---	---	0.210	0.651	0.166	0.048	0.152	0.150	0.167	0.017	---	---	0.184	1987
1988	---	---	0.031	0.370	1.78	0.213	0.071	0.228	0.245	0.145	---	---	0.388	1988
MEAN	---	---	E.142	1.02	0.975	0.448	0.169	E.097	E.126	0.173	---	---	E.392	MEAN

LOCATION - LAT 51 06 15 N LONG 100 52 57 W
DRAINAGE AREA, 281 km²
REGULATED SINCE 1972

PLEASANT VALLEY CREEK NEAR GRANDVIEW - STATION NO. 05LJ031

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	1.92 B ON APR 15	0 B ON MAR 1 *	2 450	1964
1965	---	3.31 ON APR 14	0 B ON MAR 1	5 200	1965
1966	---	4.19 B ON APR 5	0 B ON MAR 1	10 100	1966
1967	---	3.79 B ON APR 15	0 B ON MAR 1	6 550	1967
1968	---	1.85 B ON MAR 28	0 B ON MAR 1	3 820	1968
1969	---	6.86 B ON APR 15	0 B ON MAR 1	9 950	1969
1970	---	9.06 E ON APR 26	0 ON AUG 29	17 100	1970
1971	---	6.57 ON APR 12	0 ON AUG 30	14 000	1971
1972	---	3.03 B ON APR 17	0.028B ON MAR 1	8 590	1972
1973	0.705 AT 08:00 CST ON OCT 3	0.425 ON OCT 3	0 ON JUL 31	805	1973
1974	13.4 AT 19:43 CST ON MAY 22 *	11.6 ON MAY 23 *	0 B ON MAR 1	21 400	1974
1975	8.37 AT 17:00 CST ON APR 28	7.25 ON APR 28	0.008 ON AUG 18	17 200	1975
1976	4.42 AT 21:49 CST ON APR 8	3.68 ON APR 9	0.001 ON OCT 18	18 700	1976
1977	3.71 AT 21:11 CST ON OCT 11	3.43 ON OCT 12	0 ON JUL 4	3 240	1977
1978	2.82 AT 22:58 CST ON APR 17	2.21 ON APR 18	0.001 ON SEP 10	5 250	1978
1979	---	6.82 B ON APR 22	0 ON JUL 28	18 100	1979
1980	---	0.804A ON APR 14	0 ON MAY 18	2 200	1980
1981	13.3 AT 22:09 CST ON JUL 1	2.87 ON JUL 2	0 ON AUG 3	2 150	1981
1982	---	2.10 E ON OCT 1	0 ON JUN 17	2 050	1982
1983	6.76 B AT 18:40 CST ON APR 23	4.03 B ON APR 24	0 ON AUG 8	6 050	1983
1984	1.21 AT 21:41 CST ON MAY 3	0.855 ON JUL 30	0 ON JUN 29	2 310	1984
1985	2.91 B AT 22:17 CST ON APR 4	2.13 ON APR 14	0 ON AUG 8	4 330	1985
1986	4.41 B AT 18:13 CST ON MAR 28	3.26 B ON MAR 23	0 ON SEP 6	13 000	1986
1987	4.67 B AT 19:31 CST ON APR 4	3.04 B ON APR 5	0.003E ON OCT 29	4 110	1987
1988	---	3.29 ON MAY 10	0 ON JUL 11	8 210	1988
				8 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	4.00	14.4	12.3	6.15	4.05	3.78	2.68	1.78	1.25	---	1956
1957	0.283	0.170	0.312	4.01	4.70	3.67	2.03	1.87	1.38	1.55	0.855	0.010	2.38	1957
1958	0	0.066	0.073	3.20	2.58	0.577	0.169	0	0	0	0	0	0.618	1958
1959	0	0	0.085	0.070	0.013	0	0	0	0	0.004	0.028	0.008	0.023	1959
1960	0.004	0	0	1.20	0.845	0.583	0.078	0.008	0	0	0	0	0.348	1960
1961	0	0	0.010	0.082	0.030	0.003	0	0	0	0	0	0	0.013	1961
1962	0	0	0	0.080	0.008	0.003	0	0	0	0	0	0	0.011	1962
1963	0	0	0.006	0.011	0.016	0.388	0.020	0.004	0.001	0	0	0	0.058	1963
1964	0	0	0	0.358	0.225	0.007	0.003	0	0	0	0	0	0.074	1964
1965	0	0	0	0.451	0.164	0.142	0.228	0.128	0.280	0.202	0.088	0.041	0.188	1965
1966	0.003	0	0.037	0.935	3.12	0.907	0.336	0.215	0.081	0.018	0.012	0	0.708	1966
1967	0	0	0	0.567	0.580	0.488	0.138	0.002	0	0	0	0	0.217	1967
1968	0	0	0.086	0.077	0.001	0	0	0	0	0.005	0.010	0	0.021	1968
1969	0	0	0	5.68	12.1	1.82	2.00	1.43	0.958	0.818	0.677	0.387	3.08	1969
1970	0.124	0	0	0.987	11.5	5.38	2.95	1.80	1.84	1.22	1.21	0.284	3.24	1970
1971	0.048	0	0	0.964	3.05	2.85	1.87	0.557	0.623	0.824	0.217	0.018	1.34	1971
1972	0	0	0.218	2.03	3.87	1.86	0.651	0.188	0.132	0.062	0.030	0.001	1.10	1972
1973	0	0	0.017	0.028	0.089	0.032	0.009	0.004	0.005	0.017	0.013	0.001	0.025	1973
1974	0	0	0	1.47	16.0	5.57	0.966	0.483	0.505	0.543	0.362	0.187	3.20	1974
1975	0.050	0.001	0	1.11	16.2	8.83	3.09	2.03	2.98	4.86	4.29	3.26	4.92	1975
1976	2.60	1.65	0.750	55.4	28.8	8.54	5.58	1.27	1.15	0.845	0.688	0.244	12.7	1976
1977	0.033	0.001	0.084	0.804	0.748	0.215	0.091	0.005	0.115	0.037	0.024	0	0.258	1977
1978	0	0	0.013	0.498	0.255	0.085	0.110	0	0	0	0	0	0.118	1978
1979	0	0	0	0.443	3.18	2.88	0.358	0.017	0.082	0.058	0.038	0.007	0.871	1979
1980	0	0	0	0.151	0	0	0	0	0	0	0.013	0.012	0.018	1980
1981	0	0.032	0.007	0.001	0.001	0.004	0.001	0	0	0	0.001	0.001	0.002	1981
1982	---	---	0.074	0.526	0.186	0.135	0.008	0	0	0	---	---	0.115	1982
1983	---	---	0.003	0.422	0.058	0.187	0.095	0.027	0	0	---	---	0.084	1983
1984	---	---	0.009	0.007	0.037	0.008	0.001	0	0	0	---	---	0.007	1984
1985	---	---	0.058	0.082	0.032	0.005	0.001	0.009	0.024	0.048	---	---	0.032	1985
1986	---	---	0.103	0.180	1.54	0.847	0.482	0.198	0	0	---	---	0.387	1986
1987	---	---	0.086	0.417	0.500	0.181	0.038	0.018	0.006	0.002	---	---	0.158	1987
1988	---	---	0.008	0.026	0.010	0	0	0	0	0	---	---	0.008	1988
MEAN	0.126	0.077	0.064	3.61	3.78	1.75	0.829	0.431	0.422	0.428	0.398	0.219	1.14	MEAN

LOCATION - LAT 49 37 30 N, LONG 100 18 20 W DRAINAGE AREA, 5 410 km² REGULATED

PLUM CREEK NEAR SOURIS - STATION NO. 05NG007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1956	---	22.3 ON JUN 22	---	---	1956
1957	---	6.52 ON APR 27	0.0288 ON MAR 13	50 900	1957
1958	---	4.22 ON APR 14	0 B ON MAR 4 *	17 300	1958
1959	---	0.708 ON MAR 31	0 ON MAR 1	479	1959
1960	---	5.24 B ON APR 11	0 B ON MAR 1	7 380	1960
1961	---	0.2188 ON APR 3	0 ON MAR 1	276	1961
1962	---	0.3238 ON APR 21	0 ON MAR 1	240	1962
1963	---	1.53 ON JUN 16	0 ON MAR 1	1 180	1963
1964	---	1.08 ON APR 18	0 ON MAR 1	1 580	1964
1965	---	1.18 ON APR 14	0 B ON MAR 1	4 200	1965
1966	---	4.33 ON MAY 5	0 B ON MAR 1	15 000	1966
1967	1.16 AT 18:00 CST ON APR 23	1.07 ON APR 24	0 B ON MAR 1	4 600	1967
1968	---	0.3858 ON MAR 24	0 B ON MAR 1	448	1968
1969	24.5 AT 17:08 CST ON MAY 1	24.4 ON MAY 2	0 B ON MAR 1	65 300	1969
1970	17.7 AT 17:41 CST ON MAY 16	17.6 ON MAY 16	0 B ON MAR 1	68 600	1970
1971	3.98 AT 15:41 CST ON JUN 16	3.94 ON JUN 16	0 B ON MAR 1	28 400	1971
1972	6.96 B AT 17:30 CST ON APR 15	6.05 B ON APR 15	0 B ON MAR 1	23 300	1972
1973	0.238 AT 15:08 CST ON MAY 13	0.215 ON MAY 13	0 B ON MAR 1	528	1973
1974	---	21.4 ON MAY 11	0 B ON MAR 1	87 700	1974
1975	32.0 AT 04:35 CST ON MAY 14 *	31.1 ON MAY 13	0 B ON MAR 1	104 000	1975
1976	---	152 ON APR 20 *	0.142 ON OCT 16	269 000	1976
1977	---	1.47 B ON APR 9	0 ON JUL 1	5 460	1977
1978	3.11 B AT 16:46 CST ON APR 7	2.01 B ON APR 7	0 B ON MAR 1	2 520	1978
1979	5.39 AT 19:17 CST ON MAY 31	5.30 ON JUN 1	0 B ON MAR 1	18 400	1979
1980	0.7378 AT 16:36 CST ON APR 10	0.5738 ON APR 10	0 B ON MAR 1	392	1980
1981	---	0.0348 ON MAR 12	0 ON MAY 21	37.5	1981
1982	3.68 B AT 14:25 CST ON APR 15	3.13 B ON APR 15	0 B ON MAR 1	2 430	1982
1983	1.47 B AT 21:25 CST ON APR 9	1.26 B ON APR 9	0 B ON MAR 1	2 000	1983
1984	0.2018 AT 06:00 CST ON MAR 28	0.0898 ON MAR 26	0 B ON MAR 1	159	1984
1985	0.8628 AT 04:00 CST ON MAR 22	0.4298 ON MAR 22	0 B ON MAR 1	684	1985
1986	4.18 AT 23:09 CST ON MAY 30	3.46 ON MAY 7	0 B ON MAR 1	8 410	1986
1987	2.34 B AT 07:49 CST ON APR 5	1.88 B ON APR 5	0 B ON MAR 1	3 350	1987
1988	0.088 AT 12:00 CST ON APR 9	0.083 ON APR 9	0 B ON MAR 1	117	1988
				24 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	---	---	---	---	---	---	---	---	11.8	13.0	---	1967
1968	11.9	10.9	9.55	17.7	122	145	98.1	82.5	76.3	64.9	65.7	45.0	62.5	1968
1969	25.5	18.4	14.9	34.9	94.0	82.5	64.3	141	177	153	88.4	39.6	78.0	1969
1970	19.7	15.8	13.2	11.7	41.3	32.8	35.9	26.7	16.2	20.3	33.9	29.1	24.8	1970
1971	21.7	16.3	13.2	35.5	141	53.7	22.0	25.0	17.3	14.6	22.6	24.9	34.2	1971
1972	20.1	16.3	13.9	17.9	196	80.2	27.0	15.3	10.6	9.84	10.9	11.8	36.0	1972
1973	11.9	11.7	11.2	16.3	71.0	52.6	37.6	17.6	12.1	17.6	26.5	27.6	26.4	1973
1974	18.0	14.8	13.8	17.9	141	88.3	26.8	12.2	11.2	16.3	20.9	18.0	34.2	1974
1975	14.7	13.0	11.3	12.3	83.2	85.9	62.3	49.6	95.4	70.4	37.0	21.1	44.9	1975
1976	15.1	12.8	11.6	24.5	33.9	32.3	18.3	9.79	7.30	6.80	7.78	7.71	15.7	1976
1977	7.10	7.15	6.83	9.83	22.9	18.8	36.5	40.8	36.0	43.1	31.5	20.6	23.7	1977
1978	15.1	12.8	11.2	12.2	47.6	48.7	38.0	27.8	23.7	50.4	53.3	32.5	31.2	1978
1979	20.1	15.0	13.2	18.2	145	248	76.5	20.9	13.5	13.8	17.3	17.5	51.4	1979
1980	15.8	14.1	12.6	16.6	50.8	24.0	12.9	11.3	14.6	21.6	22.5	17.3	18.5	1980
1981	13.9	11.8	10.3	11.3	25.6	48.6	83.1	52.8	16.2	13.1	26.7	37.4	28.4	1981
1982	22.9	16.7	13.4	16.4	125	99.5	50.2	24.5	16.2	16.3	22.5	21.3	37.7	1982
1983	16.2	15.0	14.9	16.3	100	101	109	48.1	18.3	14.5	14.4	13.8	40.7	1983
1984	13.5	12.9	11.9	18.5	94.3	54.8	44.1	22.5	14.0	18.4	27.1	24.0	28.4	1984
1985	20.9	17.8	14.9	19.4	96.1	74.5	50.7	26.5	26.2	35.7	40.1	25.1	37.6	1985
1986	18.9	15.2	14.6	40.6	147	68.5	23.5	15.7	14.7	16.8	19.9	18.7	34.8	1986
1987	18.1	15.0	15.1	51.2	91.0	53.5	24.3	17.5	18.8	16.3	15.9	14.5	28.4	1987
1988	8.98	7.76	7.15	11.7	28.9	34.7	15.8	7.39	4.49	3.80	3.73	3.32	11.6	1988
MEAN	16.8	14.0	12.3	20.6	87.5	73.6	45.7	33.1	30.7	30.5	28.3	22.1	34.8	MEAN

LOCATION - LAT 52 46 40 N
LONG 98 45 10 W

DRAINAGE AREA, 8 850 km²
NATURAL FLOW

POPLAR RIVER AT OUTLET OF WEAVER LAKE - STATION NO. 05RE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	---	---	---	1967
1968	189 AT 23:00 CST ON MAY 30	185 ON MAY 30	8.82 ON APR 5	1 980 000	1968
1969	230 AT 04:00 CST ON AUG 29	223 ON AUG 25	13.2 ON APR 7	2 480 000	1969
1970	53.5 AT 18:32 CST ON MAY 23	53.2 ON MAY 23	10.7 ON APR 30	782 000	1970
1971	175 AT 22:20 CST ON MAY 10	174 ON MAY 9	12.2 ON APR 11	1 080 000	1971
1972	243 AT 16:30 CST ON MAY 11	242 ON MAY 11	8.33 ON OCT 16	1 140 000	1972
1973	83.2 AT 10:00 CST ON MAY 22	85.2 ON MAY 21	10.9 ON MAR 22	834 000	1973
1974	181 AT 10:00 CST ON MAY 27	181 ON MAY 26	9.46 ON AUG 28	1 080 000	1974
1975	108 AT 11:34 CST ON SEP 22	103 ON SEP 13	10.5 ON APR 12	1 420 000	1975
1976	---	38.1E ON APR 28	5.72 ON OCT 4	488 000	1976
1977	56.9 AT 13:06 CST ON JUL 22	56.4 ON JUL 23	6.65 ON MAR 23	748 000	1977
1978	66.3 AT 11:13 CST ON MAY 30	64.3 ON MAY 30	10.6 ON MAR 28	863 000	1978
1979	311 AT 13:28 CST ON JUN 8 *	308 ON JUN 8 *	12.0 ON APR 13	1 820 000	1979
1980	59.7 AT 04:20 CST ON MAY 18	58.3 ON MAY 13	9.57 ON AUG 21	817 000	1980
1981	---	92.8A ON JUL 5	9.53 ON MAR 26	927 000	1981
1982	162 AT 11:36 CST ON MAY 15	157 ON MAY 15	11.8 E ON MAR 10	1 190 000	1982
1983	150 AT 01:28 CST ON MAY 30	144 ON MAY 30	13.4 ON OCT 17	1 280 000	1983
1984	73.6 AT 22:11 CST ON MAY 31	68.5 ON JUN 3	11.7 A ON MAR 27	835 000	1984
1985	122 AT 19:06 CST ON MAY 17	119 ON MAY 17	13.4 ON APR 12	1 180 000	1985
1986	167 AT 08:26 CST ON MAY 15	164 ON MAY 16	14.1 ON SEP 7	1 100 000	1986
1987	126 AT 09:10 CST ON MAY 1	125 ON MAY 1	13.7 ON DEC 31	828 000	1987
1988	48.8 AT 18:54 CST ON JUN 7	46.0 ON JUN 7	3.09 ON OCT 23 *	368 000	1988
				1 100 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.5	0	0	0	0	0	---	---	12.4	1970
1971	---	---	0	11.3	0	0	0	0	0	0	---	---	1.38	1971
1972	---	---	7.89	103	7.47	0	0	0	0	0	---	---	14.5	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	144	87.0	9.88	3.22	0	0	0	---	---	31.8	1974
1975	---	---	0	43.7	145	81.8	0.106	0	0	0	---	---	31.3	1975
1976	---	---	0	475	211	4.11	0	0	0	0	---	---	85.3	1976
MEAN	---	---	1.01	118	71.9	10.8	0.475	0	0	0	---	---	25.2	MEAN

LOCATION - LAT 50 05 30 N
LONG 98 22 50 W

REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR OAKLAND - STATION NO. 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	284 AT 07:00 CST ON APR 28	282 ON APR 28	0 ON MAR 1 *	282 000	1970
1971	---	71.6 ON APR 19	0 ON MAR 1	28 200	1971
1972	---	237 ON APR 16	0 ON MAR 1	307 000	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	527 AT 04:00 CST ON APR 23	524 ON APR 23	0 ON MAR 1	689 000	1974
1975	256 AT 05:40 CST ON MAY 3	253 ON MAY 3	0 ON MAR 1	662 000	1975
1976	733 AT 12:30 CST ON APR 19 *	728 ON APR 19 *	0 ON MAR 1	1 810 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		534 000	MEAN

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	57.1	42.4	0	0	0	0	0	---	---	24.8	1970
1971	---	---	0	12.1	0	0	0	0	0	0	---	---	2.98	1971
1972	---	---	7.59	102	7.79	0	0	0	0	0	---	---	26.9	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	143	93.6	10.4	3.43	0	0	0	---	---	61.5	1974
1975	---	---	0	43.6	144	83.5	0	0	0	0	---	---	62.9	1975
1976	---	---	0	469	198	2.29	0	0	0	0	---	---	166	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	1.62	0	0	0	0	0	0	---	---	0.389	1978
1979	---	---	0	65.6	147	24.2	0	0	0	0	---	---	61.6	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	---	0	0	0	0	---	---	---	---	---	---	0	1981
1982	---	---	0	14.0	0	0	---	---	---	---	---	---	3.46	1982
1983	---	---	0	55.6	5.83	0	---	---	---	---	---	---	15.2	1983
1984	---	---	0	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	17.7	2.86	0	0	---	---	---	---	---	---	5.22	1985
1986	---	---	6.02	22.1	15.6	0	---	---	---	---	---	---	11.0	1986
1987	---	---	0	86.4	0	0	---	---	---	---	---	---	13.9	1987
1988	---	---	0	0	0	0	---	---	---	---	---	---	0	1988
MEAN	---	---	1.65	55.0	34.4	6.61	0.312	0	0	0	---	---	24.1	MEAN

LOCATION - LAT 49 58 00 N
LONG 98 23 30 W REGULATED SINCE 1970

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

PORTAGE DIVERSION NEAR PORTAGE LA PRAIRIE - STATION NO. 05LL018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	---	---	---	---	---
1971	---	282 E ON APR 28	0 ON MAR 1 *	282 000	1970
1972	---	76.6 ON APR 19	0 ON MAR 1	31 600	1971
1973	---	228 ON APR 16	0 ON MAR 1	305 000	1972
1974	---	0 ON MAR 1	0 ON MAR 1	0	1973
1975	252 AT 03:10 CST ON MAY 3	515 ON APR 23	0 ON MAR 1	649 000	1974
1976	---	244 ON MAY 3	0 ON MAR 1	663 000	1975
1977	---	738 E ON APR 19 *	0 ON MAR 1	1 780 000	1976
1978	59.5 AT 09:15 CST ON APR 11	0 ON MAR 1	0 ON MAR 1	0	1977
1979	357 AT 07:42 CST ON APR 30	30.0 ON APR 11	0 ON MAR 1	4 210	1978
1980	---	353 ON APR 30	08 ON MAR 1	652 000	1979
1981	---	0 ON MAR 1	0 ON MAR 1	0	1980
1982	142 AT 23:43 CST ON APR 17	0 ON MAR 1	0 ON MAR 1	0	1981
1983	---	142 ON APR 17	08 ON MAR 1	36 300	1982
1984	---	207 B ON APR 11	08 ON MAR 1	160 000	1983
1985	---	0 ON MAR 1	0 ON MAR 1	0	1984
1986	534 AT 00:43 CST ON APR 1 *	147 B ON MAR 28	08 ON MAR 1	55 100	1985
1987	493 B AT 15:45 CST ON APR 7	137 A ON APR 1	08 ON MAR 1	116 000	1986
1988	---	271 ON APR 8	08 ON MAR 1	146 000	1987
		0 ON MAR 1	0 ON MAR 1	0	1988
				255 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RAT CREEK NEAR MACDONALD : STATION NO. 05LL021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	5.39	2.01	0.103	0.002	0	0	0	---	---	1.08	1974
1975	---	---	0	0.991	0.413	0.074	0.021	0.003	0	0	---	---	0.188	1975
1976	---	---	0.002	2.85	0.083	0.032	0.001	0	0	0	---	---	0.375	1976
1977	---	---	0	0.002	0.008	0.003	0.002	0	0.001	0.004	---	---	0.003	1977
1978	---	---	0	0.716	0.080	0.047	0.108	0.002	0.001	0	---	---	0.118	1978
1979	---	---	0	5.84	2.49	0.243	0.002	0.001	0	0	---	---	1.07	1979
1980	---	---	0	0.183	0.001	0	0	0	0	0	---	---	0.022	1980
1981	---	0.030	0.038	0.029	0.030	0.017	0.001	0	0	0.017	---	---	0.016	1981
1982	---	---	0.033	0.388	0.221	0.054	0.180	0.004	0	0	---	---	0.105	1982
MEAN	---	0.030	0.008	1.95	0.594	0.084	0.033	0.001	0	0.002	---	---	0.327	MEAN

LOCATION - LAT 49 58 19 N DRAINAGE AREA, 300 km²
LONG 96 27 51 W NATURAL FLOW

REMARKS - PUBLISHED AS "WILLOW BEND CREEK" PRIOR TO 1979. THE 1981 MAX AND MIN DAILY DISCHARGE OF .147 AND 0 m³/s OCCURRED IN FEB

RAT CREEK NEAR MACDONALD - STATION NO. 05LL021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1974	---	34.0 B ON APR 18	0B ON MAR 1 *	22 300	1974
1975	---	5.15 ON APR 14	0B ON MAR 1	3 940	1975
1976	---	15.4 B ON APR 5	0B ON MAR 1	7 850	1976
1977	---	0.071 ON MAY 23	0B ON MAR 1	53.8	1977
1978	---	2.24 B ON APR 13	0B ON MAR 1	2 520	1978
1979	---	43.6 B ON APR 22 *	0B ON MAR 1	22 700	1979
1980	---	0.5765 ON APR 8	0B ON MAR 1	476	1980
1981	0.160 AT 00:00 CST ON MAY 29	0.096 ON MAY 29	0 ON APR 28	343	1981
1982	5.24 AT 22:20 CST ON JUL 28 *	1.42 ON JUL 29	0B ON MAR 1	2 210	1982
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 940	MEAN

RAT RIVER NEAR OTTERBURNE - STATION NO. 05DE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	6.51	3.92	2.18	2.57	6.44	13.6	6.84	0.850	---	1912
1913	0.425	0.283	0.283	17.0	6.46	2.10	2.28	0.677	0.583	1.29	0.850	0.566	2.64	1913
1914	0.028	0.028	0.057	2.12	3.81	2.59	1.24	0.213	0.510	0.875	0.712	0.142	1.00	1914
1915	0	0	0.057	2.69	3.48	1.43	1.10	0.133	0.113	0.703	0.705	0.142	0.883	1915
1916	0.085	0.113	0.113	14.4	6.17	2.16	1.17	0.463	0.329	0.866	0.797	0.170	2.38	1916
1917	0.080	0.038	0.083	4.70	3.21	1.04	0.805	0.129	0.080	0.305	0.824	0.198	0.957	1917
1918	---	---	---	2.07	1.33	2.17	0.685	0.554	0.320	0.662	1.34	0.214	---	1918
1919	0.070	0	0.088	5.10	2.74	1.29	3.18	0.883	1.63	0.810	0.338	0.141	1.37	1919
1920	0.046	0.072	2.11	11.4	4.28	4.40	0.233	0.008	0.042	---	---	---	---	1920
1922	---	---	---	4.22	8.89	3.86	0.588	0.122	1.08	1.04	1.67	---	---	1922
1923	---	---	---	---	17.6	2.09	1.67	0.868	0.676	1.19	0.884	---	---	1923
1924	---	---	---	---	18.6	1.70	0.751	1.35	0.464	1.93	---	---	---	1924
1925	---	---	---	12.0	5.37	41.1	14.5	2.20	2.43	3.85	---	---	---	1925
1926	---	---	---	5.00	2.20	4.07	4.40	0.971	2.95	12.9	---	---	---	1926
1927	---	---	---	38.8	52.2	18.6	5.75	1.19	1.38	1.85	---	---	---	1927
1928	---	---	---	3.54	2.54	4.59	14.2	4.80	0.821	0.840	---	---	---	1928
1929	---	---	---	---	2.32	2.78	0.498	0.053	0.043	0.408	---	---	---	1929
1930	---	---	---	---	8.83	1.85	2.47	0.177	0.061	0.949	---	---	---	1930
1931	---	---	---	9.85	4.70	1.82	0.525	0.219	0.447	1.02	1.56	---	---	1931
1932	---	---	---	---	3.38	0.847	0.748	0.105	0.171	0.818	---	---	---	1932
1933	---	---	---	12.6	2.55	5.03	0.402	0.023	0.152	0.470	---	---	---	1933
1934	---	---	---	3.36	1.29	0.882	0.243	0.002	0.010	0.466	---	---	---	1934
1935	---	---	---	---	3.10	1.85	0.837	0.175	0.196	0.413	---	---	---	1935
1936	---	---	---	---	2.28	0.832	0.044	0	0.228	---	---	---	---	1936
1942	---	---	---	---	---	1.57	0.388	0.308	3.01	1.10	---	---	---	1942
1943	---	---	---	15.4	8.52	11.5	3.84	0.547	0.523	0.384	---	---	---	1943
1944	---	---	---	2.71	1.98	9.21	5.85	5.71	18.3	3.08	11.1	---	---	1944
1945	---	---	---	25.9	11.8	2.70	2.57	1.04	7.37	6.97	---	---	---	1945
1946	---	---	---	16.1	3.34	0.808	0.850	0.057	0.644	1.82	---	---	---	1946
1947	---	---	---	11.8	6.11	8.08	2.92	4.88	1.18	3.88	---	---	---	1947
1948	---	---	---	20.5	14.7	1.82	2.08	3.34	0.823	0.384	0.635	0.324	---	1948
1949	0.222	0.187	0.174	6.34	4.37	1.58	0.260	1.68	0.351	3.55	3.85	0.788	1.95	1949
1950	0.340	0.356	0.289	14.6	63.8	8.88	9.34	2.22	4.88	8.74	3.85	0.713	8.98	1950
1951	0.480	0.280	0.609	13.8	8.84	3.04	0.437	0.521	1.03	0.884	0.535	0.286	2.86	1951
1952	0.048	0.028	0.063	2.58	1.24	0.772	0.578	0.335	0.007	0.150	0.389	0.208	0.841	1952
1953	0.038	0.010	0.233	1.51	1.85	8.20	3.24	0.465	0.549	0.618	0.731	0.319	1.32	1953
1954	0.118	0.173	0.384	4.86	12.4	16.0	1.85	0.414	0.756	0.892	0.613	0.825	3.29	1954
1955	0.340	0.226	0.286	14.1	7.27	5.65	1.85	0.546	0.210	0.868	0.755	0.280	2.70	1955
1956	0.118	0.133	0.127	6.95	9.92	3.69	2.03	2.93	12.5	2.41	5.58	1.21	4.12	1956
1957	0.501	0.288	3.78	16.8	10.6	14.3	16.6	1.32	0.761	0.609	0.761	0.377	5.58	1957
1958	0.106	0.068	0.423	1.64	1.33	0.888	3.02	0.266	0.047	0.589	0.726	0.382	0.788	1958
1959	0.088	0.038	0.083	7.68	11.3	16.6	3.78	1.49	1.66	7.53	4.63	0.826	4.82	1959
1960	0.383	0.306	0.233	23.6	9.22	3.83	1.71	0.262	0.221	0.170	0.839	0.372	3.33	1960
1961	0.338	0.140	1.48	3.58	3.48	0.490	0.055	0.032	0.039	0.168	0.157	0.070	0.832	1961
1962	0.028	0.082	0.118	4.10	9.48	11.8	3.34	3.44	0.878	0.832	1.33	0.830	2.84	1962
1963	0.218	0.008	1.47	9.43	9.42	11.3	8.89	3.78	0.380	0.322	0.513	0.312	3.51	1963
1964	0.288	0.878	0.088	8.63	11.2	7.36	4.55	0.380	0.334	1.42	0.784	0.324	2.98	1964
1965	0.087	0.113	0.085	18.1	15.4	7.76	4.40	0.837	2.19	3.43	3.57	1.48	4.76	1965
1966	0.784	0.780	2.33	49.0	21.2	8.18	10.5	3.36	4.66	1.26	1.17	0.388	8.76	1966
1967	0.307	0.225	0.715	41.7	21.0	1.86	0.484	0.102	0.044	0.121	0.159	0.184	5.57	1967
1968	0.071	0.070	1.15	4.38	5.27	4.88	8.58	5.43	8.81	2.94	2.23	0.611	3.38	1968
1969	0.284	0.226	0.405	19.8	10.9	3.25	1.79	0.904	0.378	1.88	1.00	0.436	3.42	1969
1970	0.267	0.187	0.221	8.51	26.6	14.6	1.46	0.105	0.463	0.898	1.89	0.347	4.75	1970
1971	0.223	0.104	0.273	11.0	5.86	1.83	0.460	0.210	0.036	0.536	0.794	0.275	1.77	1971
1972	0.153	0.037	0.568	4.44	4.26	0.708	0.042	0.108	0.348	0.891	0.875	0.086	1.04	1972
1973	0.029	0.020	1.57	1.98	1.58	1.31	1.03	0.897	0.454	2.71	1.33	0.424	1.10	1973
1974	0.082	0.218	0.188	23.1	31.3	12.4	0.430	0.138	0.188	0.305	0.378	0.204	5.75	1974
1975	0.200	0.085	0.232	2.12	4.28	2.13	2.83	0.008	0.008	0.101	0.367	0.113	1.05	1975
1976	0.075	0.083	0.188	4.18	1.61	1.13	0.321	0.004	0	0.184	0.020	0	0.640	1976
1977	0	0	0.088	0.806	0.770	0.775	0.251	0.083	0.488	1.26	0.725	0.123	0.457	1977
1978	0.112	0.088	0.403	9.78	4.43	0.834	0.358	0.028	0.007	0.041	0.212	0.103	1.34	1978
1979	0.040	0.014	0.058	10.8	12.9	5.37	0.316	0.044	0.121	0.053	0.289	0.118	2.52	1979
1980	0.082	0.088	0.132	4.08	0.988	0.077	0	0	0.088	0.758	0.748	0.141	0.592	1980
1981	0.018	0.141	1.32	1.50	0.884	1.94	0.883	0.422	0.812	2.71	2.31	0.777	1.17	1981
1982	0.050	0.028	0.820	10.7	6.81	6.96	5.36	2.50	0.804	4.02	1.63	0.835	3.37	1982
1983	0.287	0.202	6.74	15.9	4.46	3.14	2.35	0.181	0.088	0.235	0.550	0.141	2.86	1983
1984	0.013	0.003	0.598	3.42	1.54	3.49	3.00	0.248	0.008	0.183	0.382	0.106	1.06	1984
1985	0.022	0.003	1.69	2.52	2.67	1.81	0.873	0.892	1.86	1.83	1.20	0.611	1.34	1985
1986	0.230	0.261	2.90	17.7	27.6	2.28	1.87	0.571	0.569	1.88	0.942	0.604	4.81	1986
1987	0.388	0.248	2.67	18.2	3.02	0.876	0.385	0.125	0.004	0.142	0.104	0.096	2.18	1987
1988	0.017	0	0.062	2.33	0.543	0.113	0.001	0.048	0	0.015	0.008	0	0.259	1988
MEAN	0.173	0.140	0.806	10.8	8.68	4.95	2.61	1.01	1.38	1.78	1.50	0.381	2.71	MEAN

LOCATION - LAT 49 27 42 N DRAINAGE AREA, 1 390 km²
LONG 97 00 26 W REGULATED SINCE 1958

RAT RIVER NEAR OTTERBURNE - STATION NO. 05OE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	18.3 ON APR 23	0.2838 ON FEB 1	83 300	1913
1914	---	7.99 ON APR 23	0.0288 ON JAN 1	31 800	1914
1915	---	6.21 ON MAY 5	0 B ON JAN 1 *	27 800	1915
1916	---	28.2 ON APR 19	0.0858 ON JAN 1	75 800	1916
1917	---	7.31 ON APR 24	0.0288 ON FEB 11	30 500	1917
1918	---	3.79 ON JUN 11	---	---	1918
1919	---	7.828 ON APR 9	0 B ON FEB 1	43 100	1919
1920	---	17.0 ON APR 18	0 B ON JAN 21	---	1920
1922	---	15.0 ON MAY 25	---	---	1922
1923	---	85.7 R ON APR 28	---	---	1923
1924	---	---	---	---	1924
1925	---	88.1 ON JUN 12	---	---	1925
1926	---	16.2 ON OCT 27	---	---	1926
1927	---	130 ON MAY 14	---	---	1927
1928	---	22.8 ON JUL 28	---	---	1928
1929	---	---	---	---	1929
1930	---	---	0 ON SEP 8	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	20.2 B ON APR 15	0 ON AUG 19	---	1933
1934	---	---	0 ON AUG 3	---	1934
1935	---	---	---	---	1935
1936	---	---	0 ON JUL 14	---	1936
1942	---	---	---	---	1942
1943	---	24.9 ON APR 14	---	---	1943
1944	---	37.9 ON SEP 7	0 B ON APR 1	---	1944
1945	---	50.7 ON MAR 29	---	---	1945
1946	---	25.7 B ON MAR 31	---	---	1946
1947	---	17.6 ON AUG 21	---	---	1947
1948	---	83.7 ON APR 20	---	---	1948
1949	---	9.808 ON APR 7	0.082 ON JUL 18	51 400	1949
1950	---	188 ON MAY 6 *	0.2498 ON MAR 28	315 000	1950
1951	---	18.0 B ON APR 8	0.0578 ON DEC 30	84 000	1951
1952	---	3.80 ON APR 20	0 ON SEP 8	17 100	1952
1953	---	12.4 ON JUN 5	0 B ON FEB 11	41 700	1953
1954	---	31.1 ON JUN 14	0.0858 ON JAN 26	104 000	1954
1955	---	20.6 ON APR 25	0.028 ON AUG 25	85 300	1955
1956	---	27.6 ON APR 26	0.0288 ON MAR 30	130 000	1956
1957	---	32.3 ON JUN 30	0.0288 ON MAR 16	176 000	1957
1958	---	5.44 ON JUL 7	0.0288 ON FEB 3	25 200	1958
1959	---	51.0 ON JUN 13	0.023 ON AUG 9	152 000	1959
1960	---	36.0 ON APR 14	0.011 ON SEP 30	105 000	1960
1961	---	6.068 ON MAR 26	0 B ON FEB 18	26 200	1961
1962	25.0 AT 06:00 CST ON MAY 29	25.7 ON MAY 29	0 B ON JAN 1	92 800	1962
1963	32.8 AT 05:00 CST ON JUN 29	32.0 ON JUN 29	0 B ON FEB 15	111 000	1963
1964	---	24.9 A ON MAY 8	0 B ON MAR 27	94 300	1964
1965	51.5 AT 23:00 CST ON APR 16	51.0 ON APR 14	0.0208 ON JAN 20	151 000	1965
1966	90.0 AT 08:30 CST ON APR 5	86.1 ON APR 5	0.2658 ON DEC 28	276 000	1966
1967	91.2 AT 17:30 CST ON APR 22 *	88.3 ON APR 22	0.014 ON OCT 17	175 000	1967
1968	15.4 AT 08:15 CST ON MAY 15	15.1 ON MAY 15	0.0148 ON FEB 25	107 000	1968
1969	---	40.8 ON APR 12	0.045 ON SEP 3	108 000	1969
1970	37.7 AT 04:00 CST ON MAY 18	36.5 ON MAY 18	0.005 ON AUG 28	150 000	1970
1971	---	27.9 B ON APR 11	0 ON SEP 29	65 700	1971
1972	---	10.6 B ON APR 16	0 B ON FEB 7	33 000	1972
1973	---	3.88 ON OCT 22	0.0108 ON FEB 11	34 700	1973
1974	---	57.2 A ON APR 24	0 B ON JAN 12	181 000	1974
1975	21.6 AT 15:00 CST ON JUL 1	19.5 ON JUL 1	0 ON AUG 22	33 000	1975
1976	---	5.55 ON APR 15	0 ON AUG 5	20 300	1976
1977	3.03 AT 03:17 CST ON MAY 31	2.36 ON MAY 31	0 B ON JAN 1	14 400	1977
1978	16.4 B AT 04:05 CST ON APR 12	16.3 B ON APR 12	0 ON AUG 31	42 400	1978
1979	43.9 B AT 20:55 CST ON APR 20	42.3 B ON APR 20	0 ON AUG 21	79 300	1979
1980	8.41 AT 22:43 CST ON APR 7	8.248 ON APR 7	0 ON JUL 5	18 700	1980
1981	3.538 AT 15:30 CST ON NOV 20	3.31 ON OCT 31	0.0028 ON JAN 14	37 000	1981
1982	21.4 AT 10:53 CST ON APR 16	20.8 ON APR 16	0.0058 ON FEB 14	108 000	1982
1983	28.1 B AT 03:44 CST ON APR 9	27.6 B ON APR 9	0 ON AUG 19	80 200	1983
1984	9.46 AT 18:37 CST ON JUN 9	8.26 ON JUN 9	0 B ON JAN 15	34 100	1984
1985	---	6.598 ON MAR 26	0 B ON FEB 12	42 100	1985
1986	48.3 AT 15:31 CST ON MAY 6	47.5 ON MAY 6	0.088 ON AUG 30	152 000	1986
1987	37.1 AT 00:50 CST ON APR 8	36.4 ON APR 8	0.001 ON AUG 29	88 900	1987
1988	8.128 AT 17:44 CST ON APR 5	6.918 ON APR 5	0 B ON JAN 15	8 190	1988
				85 400	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1986

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.098	2.74	5.66	6.38	2.98	1.30	1.75	3.07	---	---	2.99	1959
1960	---	---	0.289	6.83	5.22	3.86	1.89	0.987	0.072	0.024	---	---	2.22	1960
1961	---	---	0.158	1.64	2.19	0.460	0.072	0.022	0.033	0.008	---	---	0.671	1961
1962	---	---	0.085	1.42	4.35	5.01	2.12	3.36	2.57	5.34	---	---	3.03	1962
1963	---	---	0.284	5.60	3.84	6.82	3.59	1.84	0.655	0.201	---	---	2.81	1963
1964	---	---	0.028	3.66	5.84	4.00	2.08	0.211	0.259	0.868	---	---	2.11	1964
1965	---	---	0.028	5.10	7.16	4.51	3.32	0.359	2.18	2.84	---	---	3.18	1965
1966	---	---	0.170	17.5	11.0	5.55	4.68	2.01	2.46	0.720	---	---	5.48	1966
1967	---	---	0.208	14.7	10.1	1.59	0.520	0.147	0	0.066	---	---	3.38	1967
1968	---	---	0.282	3.24	3.61	4.03	5.35	4.23	4.13	1.98	---	---	3.35	1968
1969	---	---	0.323	9.14	6.33	2.48	1.30	0.951	0.408	1.32	---	---	2.77	1969
1970	---	---	0.226	4.87	13.4	8.29	0.542	0.068	0.238	0.845	---	---	3.52	1970
1971	---	---	0.210	5.64	4.39	1.42	0.497	0.279	0.008	0.404	---	---	1.60	1971
1972	---	---	0.143	2.44	3.36	0.486	0.064	0.064	0.228	0.445	---	---	0.803	1972
1973	---	---	0.574	1.53	1.44	1.55	0.865	0.448	0.315	2.08	---	---	1.10	1973
1974	---	---	---	5.80	12.5	5.74	0.199	0.123	0.125	0.248	---	---	---	1974
1975	---	---	0.340	1.24	3.18	2.08	1.64	0.023	0.148	0.040	---	---	1.09	1975
1976	---	---	0.116	2.89	1.23	0.832	0.223	0.020	0.093	0.087	---	---	0.677	1976
1977	---	---	0.003	0.485	0.590	0.882	0.438	0.123	0.614	1.14	---	---	0.510	1977
1978	---	---	0.180	3.80	3.24	0.494	0.406	0.081	0.025	0.104	---	---	1.05	1978
1979	---	---	0.048	3.01	8.91	2.84	0.212	0.039	0.084	0.044	---	---	1.84	1979
1980	---	---	0.104	1.86	0.881	0.031	0.007	0.006	0.188	0.701	---	---	0.476	1980
1981	---	---	0.368	1.12	0.834	1.68	0.620	0.522	1.24	2.72	---	---	1.14	1981
1982	---	---	0.178	5.07	5.80	4.82	2.79	1.58	0.365	2.89	---	---	2.93	1982
1983	---	---	2.19	9.83	3.91	3.01	2.18	0.084	0.018	0.211	---	---	2.63	1983
1984	---	---	0.221	1.83	1.25	2.37	2.89	0.153	0.003	0.084	---	---	1.08	1984
1985	---	---	0.509	1.94	2.45	1.73	0.788	0.895	1.65	1.75	---	---	1.43	1985
1986	---	---	1.80	11.3	14.1	1.87	1.39	0.317	0.586	1.64	---	---	4.09	1986
1987	---	---	1.32	9.93	2.58	0.825	0.397	0.088	0.001	0.001	---	---	1.87	1987
1988	---	---	0.021	1.28	0.352	0.082	0.002	0.001	0	0.001	---	---	0.214	1988
MEAN	---	---	0.356	4.94	4.92	2.85	1.45	0.835	0.881	1.06	---	---	2.08	MEAN

LOCATION - LAT 48 19 04 N DRAINAGE AREA, 905 km²
LONG 98 56 39 W REGULATED SINCE 1959

RAT RIVER NEAR ST. MALO - STATION NO. 05OE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	14.0 ON JUN 11	0.0288 ON MAR 1	63 300	1959
1960	---	13.5 ON APR 21	0 E ON AUG 14 *	47 000	1960
1961	---	4.84 ON APR 29	0.003 ON SEP 15	12 100	1961
1962	---	7.79 ON MAY 24	0.0458 ON MAR 1	64 100	1962
1963	---	15.7 ON JUN 26	0.0038 ON MAR 1	59 500	1963
1964	---	11.4 ON MAY 6	0.014 ON AUG 22	44 700	1964
1965	---	15.1 ON MAY 6	0.0288 ON MAR 1	67 300	1965
1966	---	28.6 ON APR 11	0.1708 ON MAR 1	116 000	1966
1967	---	28.9 ON APR 21 *	0 ON AUG 24	71 800	1967
1968	---	7.82 ON SEP 4	0.1438 ON MAR 1	70 800	1968
1969	---	17.3 ON APR 20	0.1388 ON MAR 1	58 600	1969
1970	---	18.8 ON MAY 16	0.005 ON AUG 24	74 500	1970
1971	---	9.15 ON APR 21	0 ON AUG 16	33 800	1971
1972	---	5.21 ON APR 23	0 B ON MAR 1	19 100	1972
1973	---	3.65 ON OCT 23	0 ON SEP 19	23 300	1973
1974	---	23.0 ON APR 25	0 ON AUG 10	---	1974
1975	---	5.75 ON APR 28	0.005 ON SEP 24	23 000	1975
1976	---	4.39 ON APR 21	0 ON JUL 13	14 300	1976
1977	---	1.84 ON OCT 4	0 B ON MAR 1	10 800	1977
1978	---	7.11 ON APR 19	0 ON AUG 15	22 200	1978
1979	19.2 B AT 14:19 CST ON APR 20	10.7 B ON APR 19	0 ON AUG 13	34 800	1979
1980	3.70 AT 08:00 CST ON APR 18	3.65 ON APR 19	0.004 ON JUL 27	10 100	1980
1981	3.57 AT 20:59 CST ON OCT 26	3.40E ON OCT 31	0.034 ON JUL 28	24 100	1981
1982	10.4 AT 10:16 CST ON APR 15	9.46 ON APR 15	0.0368 ON MAR 1	62 000	1982
1983	14.5 AT 21:00 CST ON APR 8	14.1 ON APR 12	0 B ON MAR 1	55 700	1983
1984	7.48 AT 08:28 CST ON JUL 9	6.84 ON JUL 9	0 ON SEP 16	22 900	1984
1985	4.58 AT 09:01 CST ON MAY 13	4.43 ON MAY 13	0.020 ON AUG 3	30 400	1985
1986	21.2 AT 17:36 CST ON MAY 6 *	20.8 ON MAY 6	0.123 ON AUG 27	88 600	1986
1987	20.7 AT 02:12 CST ON APR 6	18.3 ON APR 6	0 ON SEP 6	39 600	1987
1988	2.61 AT 16:41 CST ON APR 14	2.72 ON APR 14	0 B ON MAR 1	4 520	1988
				43 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	7.65	2.58	2.22	0.898	0.506	0.214	0.388	0.670	0.368	---	1960
1961	0.278	0.052	1.09	2.24	2.17	0.360	0.239	0.069	0.120	0.280	0.211	0.180	0.808	1961
1962	0.233	0.203	0.288	2.77	7.05	4.93	1.54	2.17	0.812	0.416	0.884	0.580	1.80	1962
1963	0.198	0.080	1.45	5.08	3.44	5.90	1.86	0.855	0.240	0.842	0.241	0.241	1.72	1963
1964	0.173	0.102	0.108	4.80	4.45	4.78	0.578	0.173	0.812	0.985	0.422	0.145	1.64	1964
1965	0.152	0.188	0.144	3.42	5.78	2.88	2.87	0.593	2.28	3.58	1.10	1.00	1.99	1965
1966	0.575	0.449	1.33	10.7	9.11	1.80	5.82	0.492	1.51	0.531	0.432	0.282	2.77	1966
1967	0.226	0.075	0.508	11.7	4.40	0.482	0.437	0.222	0.030	0.255	0.250	0.278	1.57	1967
1968	0.184	0.121	0.882	3.40	3.12	4.02	3.35	2.90	1.97	1.16	0.738	0.337	1.85	1968
1969	0.248	0.331	0.388	5.55	2.87	2.71	0.928	0.525	0.316	0.936	0.690	0.388	1.40	1969
1970	0.263	0.234	0.310	7.66	10.7	4.52	0.416	0.103	0.822	1.03	1.18	0.300	2.28	1970
1971	0.128	0.084	0.118	5.88	2.57	1.17	0.508	0.237	0.161	0.880	0.888	0.275	1.03	1971
1972	0.158	0.158	0.441	4.94	2.40	0.329	0.159	0.548	0.591	0.699	0.708	0.119	0.834	1972
1973	0.114	0.133	1.15	1.28	1.36	2.04	0.615	0.732	0.909	1.68	0.988	0.372	0.951	1973
1974	0.177	0.229	0.278	10.4	10.8	3.20	0.283	0.075	0.190	0.413	0.411	0.295	2.22	1974
1975	0.298	0.210	0.294	1.73	3.17	2.00	0.868	0.052	0.082	0.244	0.330	0.087	0.783	1975
1976	0.161	0.097	0.218	3.36	0.855	0.963	0.184	0.034	0.019	0.076	0.070	0.017	0.508	1976
1977	0.005	0.015	0.322	1.10	0.786	0.703	0.315	0.148	0.890	1.15	0.787	0.783	0.591	1977
1978	0.243	0.158	0.271	6.93	2.26	0.313	0.463	0.087	0.152	0.283	0.187	0.111	0.951	1978
1979	0.051	0.049	0.153	5.82	4.03	2.18	0.220	0.045	0.184	0.295	0.294	0.218	1.11	1979
1980	0.128	0.054	0.168	2.24	0.781	0.129	0.088	0.062	0.504	0.856	0.427	0.179	0.485	1980
1981	0.158	0.307	0.643	0.945	1.08	1.60	0.423	0.558	2.52	2.54	1.18	0.447	1.03	1981
1982	0.093	0.072	0.366	5.43	3.33	1.88	1.28	0.868	0.292	2.42	0.880	0.860	1.48	1982
1983	0.211	0.288	1.11	4.02	4.08	2.59	1.75	0.512	0.341	0.651	0.373	0.227	1.36	1983
1984	0.113	0.132	0.577	1.58	0.866	4.00	0.756	0.134	0.041	0.935	0.438	0.138	0.805	1984
1985	0.081	0.082	0.541	1.10	2.34	1.71	0.657	0.830	1.55	1.52	0.728	0.264	0.955	1985
1986	0.270	0.278	1.69	8.24	8.87	0.889	1.59	0.547	0.974	0.988	0.620	0.457	2.08	1986
1987	0.352	0.322	1.69	7.02	1.43	0.789	0.410	0.058	0.081	0.333	0.297	0.180	1.07	1987
1988	0.083	0.039	0.125	1.26	0.552	0.087	0.208	0.017	0.006	0.092	0.160	0.083	0.224	1988
MEAN	0.194	0.181	0.574	4.79	3.89	2.10	1.02	0.498	0.824	0.908	0.551	0.318	1.28	MEAN

LOCATION - LAT 49 12 35 N DRAINAGE AREA, 416 km²
LONG 98 17 00 W NATURAL FLOW

RAT RIVER NEAR SUNDOWN - STATION NO. 05OE004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	36.5 ON APR 14 *	0 B ON MAR 1 *	---	1960
1961	---	5.32 ON APR 22	0 B ON FEB 28	19 200	1961
1962	---	22.8 ON MAY 24	0.1058 ON MAR 25	56 700	1962
1963	---	13.1 B ON APR 10	0 B ON FEB 2	54 300	1963
1964	---	11.8 ON APR 19	0.0288 ON FEB 28	45 300	1964
1965	---	14.3 ON MAY 8	0.1138 ON APR 8	82 900	1965
1966	---	19.8 ON JUL 5	0.147 ON AUG 5	87 200	1966
1967	---	21.3 ON APR 22	0.014 ON SEP 11	49 500	1967
1968	---	11.4 ON JUN 12	0.0258 ON MAR 4	58 500	1968
1969	---	14.4 B ON APR 14	0.139 ON AUG 29	44 200	1969
1970	---	19.8 ON MAY 31	0.051 ON AUG 28	71 900	1970
1971	---	13.6 ON APR 13	0.057 ON AUG 15	32 500	1971
1972	---	12.3 ON APR 19	0.005 ON AUG 7	29 500	1972
1973	---	8.71 ON JUN 22	0.020 ON JUL 23	30 000	1973
1974	36.5 AT 12:19 CST ON APR 22 *	34.3 ON APR 22	0 ON JUL 26	89 600	1974
1975	7.48 AT 03:05 CST ON MAY 2	7.38 ON MAY 2	0 ON SEP 16	24 700	1975
1976	5.24 AT 06:18 CST ON APR 19	5.15 ON APR 19	0 ON AUG 24	18 100	1976
1977	3.34 AT 23:55 CST ON SEP 28	3.31 ON SEP 29	0.0038 ON JAN 11	16 700	1977
1978	12.9 AT 11:20 CST ON APR 20	12.4 ON APR 19	0.008 ON SEP 11	30 000	1978
1979	19.2 AT 14:19 CST ON APR 20	17.8 ON APR 20	0.001 ON AUG 15	35 000	1979
1980	8.858 AT 16:57 CST ON APR 9	8.098 ON APR 9	0 ON AUG 1	14 700	1980
1981	13.6 AT 13:10 CST ON SEP 9	13.1 ON SEP 9	0.071 ON AUG 20	32 600	1981
1982	20.3 B AT 18:11 CST ON APR 16	18.8 B ON APR 16	0.0818 ON FEB 18	46 600	1982
1983	12.9 B AT 23:48 CST ON APR 8	10.8 ON MAY 15	0.121 ON SEP 8	42 700	1983
1984	16.3 AT 13:16 CST ON JUN 11	15.6 ON JUN 11	0 ON SEP 24	25 500	1984
1985	4.06 AT 03:47 CST ON MAY 16	4.01 ON MAY 16	0.0708 ON FEB 18	30 100	1985
1986	23.9 AT 19:19 CST ON MAY 8	21.9 ON MAR 31	0.077 ON AUG 16	66 100	1986
1987	19.7 AT 16:50 CST ON APR 9	1..4 ON APR 9	0.001 ON SEP 11	33 800	1987
1988	---	4.448 ON APR 8	0 ON AUG 27	7 070	1988
				40 500	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED DEER RIVER NEAR THE MOUTH - STATION NO. 05LC004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	6.25	89.9	111	74.5	44.8	31.0	24.5	---	---	---	1956
1957	---	---	0	11.3	150	96.8	47.0	23.2	15.8	11.2	---	---	---	1957
1958	---	---	2.61	14.3	19.5	14.4	19.1	13.8	12.1	12.9	---	---	---	1958
1959	---	---	0.048	12.6	37.8	32.5	48.4	25.1	32.6	40.5	45.2	31.8	---	1959
1960	8.46	6.91	6.83	35.1	104	112	59.4	29.3	18.3	---	---	---	---	1960
1961	---	---	2.80	10.8	13.2	10.3	5.85	1.98	0.756	0.573	0.233	---	---	1961
1962	---	---	0	2.46	29.2	25.5	11.7	7.14	6.82	8.04	5.16	2.52	---	1962
1963	0.277	0	0	6.19	14.2	13.5	10.3	6.01	6.61	5.79	3.63	1.77	5.87	1963
1964	0.268	0.119	0.171	5.76	45.7	35.7	16.5	13.2	16.7	14.7	13.8	8.40	14.3	1964
1965	8.28	2.86	2.86	12.5	89.2	136	98.8	64.6	40.2	44.7	16.5	5.72	41.0	1965
1966	5.36	5.85	5.86	27.7	74.8	98.2	101	65.6	40.7	26.6	22.0	13.4	40.9	1966
1967	10.4	8.37	7.40	9.59	76.9	94.6	45.1	24.1	14.0	9.57	8.78	2.08	26.2	1967
1968	0.442	0.089	0.444	12.5	20.3	34.6	42.8	38.5	32.7	22.4	16.7	12.3	19.6	1968
1969	7.84	6.75	6.86	25.9	41.5	28.1	14.3	8.93	5.31	11.3	8.52	8.55	14.1	1969
1970	1.53	0.228	0.059	2.87	74.2	75.8	83.8	63.1	29.2	21.8	44.2	27.9	35.5	1970
1971	18.0	12.2	10.2	46.1	86.7	48.9	29.6	21.2	12.4	12.6	13.1	10.3	26.9	1971
1972	7.86	4.20	5.54	18.3	170	101	49.4	24.7	13.5	9.61	4.41	1.80	34.3	1972
1973	1.02	0.751	0.791	6.67	20.7	55.4	74.9	44.2	24.6	17.2	13.7	10.2	22.8	1973
1974	8.17	8.33	8.73	21.7	138	153	70.3	30.0	21.0	16.4	15.5	10.8	41.5	1974
1975	5.80	4.26	5.13	10.3	74.3	87.3	58.0	32.8	25.5	30.4	28.0	15.5	31.4	1975
1976	9.92	7.93	5.57	22.9	37.9	59.2	83.4	42.1	20.3	12.1	8.73	2.77	25.0	1976
1977	1.43	0.649	0.857	8.99	19.1	14.6	11.9	22.9	25.3	31.5	24.0	14.8	14.7	1977
1978	11.7	5.91	7.67	20.1	71.1	46.3	31.5	20.3	17.3	24.4	21.3	16.4	24.7	1978
1979	12.4	8.36	7.09	19.4	145	189	84.6	34.3	18.2	12.7	8.84	4.85	45.5	1979
1980	4.23	2.58	2.76	8.70	16.0	8.18	7.10	5.43	7.46	10.0	8.90	5.27	7.15	1980
1981	3.58	2.94	3.78	11.4	[illegible]	14.4	14.2	10.6	5.72	11.2	18.1	11.9	10.5	1981
1982	6.07	2.22	1.37	7.83	[illegible]	35.9	29.7	25.2	15.8	15.2	9.87	7.78	15.3	1982
1983	5.86	5.95	5.71	11.7	[illegible]	98.0	80.8	59.1	35.4	24.7	18.0	8.94	35.6	1983
1984	8.28	7.26	6.88	29.8	87.2	139	80.8	34.3	17.6	17.7	19.1	14.5	38.6	1984
1985	10.3	7.74	8.86	34.0	95.4	71.2	47.5	35.6	31.5	28.5	17.4	12.6	33.4	1985
1986	7.83	5.80	5.74	36.5	74.4	59.3	35.5	20.2	10.2	8.86	6.02	7.36	23.5	1986
1987	6.56	5.19	4.39	20.6	28.0	24.7	24.5	18.6	13.7	15.4	12.1	7.64	15.1	1987
1988	4.62	3.46	3.20	29.1	87.5	49.5	24.1	11.3	7.05	4.86	2.78	1.53	19.1	1988
MEAN	6.42	4.66	3.95	17.2	63.8	65.9	46.5	28.0	18.8	17.5	14.9	9.88	25.6	MEAN

LOCATION - LAT 52 52 45 N DRAINAGE AREA, 14 400 km²
LONG 101 02 35 W NATURAL FLOW

REMARKS - PRIOR TO 1987 PUBLISHED AS "MOUTH, LAKE WINNIPEGOSIS"

RED DEER RIVER NEAR THE MOUTH - STATION NO. 05LC004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	150 ON MAY 28	---	---	1956
1957	---	195 ON MAY 10	0 B ON MAR 1 *	---	1957
1958	---	28.9 ON MAY 1	---	---	1958
1959	---	80.0 ON MAY 10	0 B ON MAR 1	---	1959
1960	---	144 ON JUN 2	---	---	1960
1961	---	15.1 ON MAY 18	---	---	1961
1962	---	36.0 ON MAY 30	0 B ON MAR 1	---	1962
1963	---	28.9 ON MAY 19	0 B ON JAN 20	185 000	1963
1964	---	83.1 ON MAY 24	0.1138 ON JAN 21	451 000	1964
1965	---	176 ON JUN 8	2.31 B ON FEB 25	1 290 000	1965
1966	---	112 ON JUL 21	5.18 B ON JAN 1	1 290 000	1966
1967	---	137 ON MAY 23	0.8918 ON DEC 31	825 000	1967
1968	88.4 AT 06:50 CST ON JUL 8	54.8 ON JUL 8	0.0528 ON MAR 16	819 000	1968
1969	97.2 AT 17:30 CST ON MAY 7	51.8 ON MAY 7	3.20 E ON SEP 18	444 000	1969
1970	118 AT 09:00 CST ON JUL 22	118 ON JUL 22	0.0518 ON MAR 16	1 150 000	1970
1971	106 AT 13:48 CST ON MAY 6	101 ON APR 30	8.47 ON SEP 25	847 000	1971
1972	199 AT 10:30 CST ON MAY 15	197 ON MAY 15	1.22 B ON DEC 29	1 080 000	1972
1973	104 AT 17:58 CST ON JUL 7	88.1 ON JUL 12	0.8578 ON MAR 1	720 000	1973
1974	192 AT 08:00 CST ON MAY 31	189 ON MAY 31	5.63 B ON JAN 12	1 310 000	1974
1975	---	97.1 ON JUN 12	3.88 B ON FEB 10	981 000	1975
1976	104 AT 18:18 CST ON JUL 5	102 ON JUL 6	2.27 B ON DEC 30	821 000	1976
1977	41.6 AT 04:10 CST ON OCT 17	38.8 ON NOV 3	0.5408 ON FEB 3	465 000	1977
1978	82.7 AT 06:00 CST ON MAY 11	78.0 ON MAY 11	8.40 B ON FEB 15	779 000	1978
1979	229 AT 12:03 CST ON JUN 5 *	223 ON JUN 5 *	3.85 B ON DEC 18	1 440 000	1979
1980	28.3 AT 14:40 CST ON AUG 25	19.4 ON MAY 5	2.37 B ON MAR 5	226 000	1980
1981	25.0 AT 19:00 CST ON NOV 7	20.9 ON NOV 13	1.74 ON SEP 20	332 000	1981
1982	83.9 AT 19:34 CST ON AUG 7	47.0 ON JUN 7	1.08 B ON APR 2	483 000	1982
1983	121 AT 18:46 CST ON JUN 14	113 ON JUN 13	4.54 B ON DEC 26	1 120 000	1983
1984	181 AT 00:52 CST ON JUN 1	181 ON JUN 11	5.11 B ON JAN 1	1 220 000	1984
1985	134 AT 19:31 CST ON JUN 8	110 ON MAY 18	5.94 B ON MAR 14	1 050 000	1985
1986	93.8 AT 10:47 CST ON JUN 12	82.8 ON MAY 16	4.54 B ON MAR 12	740 000	1986
1987	41.3 AT 19:58 CST ON APR 26	38.3 ON MAY 5	4.00 B ON MAR 15	478 000	1987
1988	107 AT 13:55 CST ON MAY 12	101 ON MAY 12	0.9308 ON DEC 31	805 000	1988
				805 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

RED RIVER AT EMERSON - STATION NO. 05DC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	87.0	48.7	34.3	29.8	32.3	84.8	38.9	22.3	---	1912
1913	14.1	8.55	11.3	378	90.1	49.8	37.9	27.1	34.3	33.8	37.9	24.8	82.0	1913
1914	15.3	13.8	22.7	117	91.9	126	96.7	38.1	37.8	39.6	38.5	26.8	55.8	1914
1915	25.3	24.6	28.1	144	108	142	372	83.5	50.9	51.5	45.4	32.5	92.8	1915
1916	25.4	22.3	26.1	820	588	225	304	145	120	91.0	78.4	56.5	208	1916
1917	35.8	28.6	32.3	397	164	73.3	41.7	18.2	13.2	19.3	25.5	16.0	71.9	1917
1918	8.75	6.27	30.3	88.9	61.4	85.1	28.2	20.7	18.9	11.8	19.1	18.3	28.7	1918
1919	13.3	12.0	16.8	219	112	61.0	221	103	43.4	33.0	22.6	20.8	73.5	1919
1920	23.0	25.5	82.8	520	118	138	85.1	43.7	32.1	34.3	35.1	28.7	97.8	1920
1921	23.0	22.1	32.3	181	73.8	78.2	50.5	25.0	23.8	23.7	20.4	18.7	47.5	1921
1922	13.2	10.7	56.0	361	227	85.5	42.3	18.2	15.8	14.2	20.7	10.6	73.8	1922
1923	8.65	9.27	11.2	287	219	57.0	89.6	23.1	17.0	17.3	17.3	11.3	82.4	1923
1924	6.38	6.71	8.67	80.2	87.5	38.0	25.4	11.5	10.1	20.0	15.0	5.91	26.3	1924
1925	3.99	5.25	30.4	137	46.7	289	96.3	14.7	15.8	26.5	25.2	19.6	58.7	1925
1926	13.2	14.7	47.8	150	38.0	72.8	59.7	13.8	12.8	27.6	23.1	14.0	40.5	1926
1927	11.8	11.1	113	380	415	247	93.8	45.1	42.0	36.8	31.3	22.8	121	1927
1928	17.1	19.0	55.3	215	80.7	83.4	128	54.4	68.6	51.6	45.3	30.9	71.5	1928
1929	29.7	25.0	167	192	75.1	46.0	21.4	12.0	9.14	12.8	13.6	8.33	51.2	1929
1930	5.67	5.07	81.9	247	146	54.5	30.1	10.3	6.10	6.58	7.57	6.68	50.7	1930
1931	4.88	5.65	27.2	95.8	25.0	18.7	10.1	4.46	2.29	2.40	5.25	5.30	17.4	1931
1932	4.71	3.91	38.6	221	54.5	16.6	7.25	1.77	1.13	1.30	3.44	2.52	29.6	1932
1933	1.53	1.40	24.4	165	43.8	29.0	7.18	2.07	1.30	1.38	2.40	1.31	23.3	1933
1934	1.54	0.923	13.9	61.7	18.8	5.55	3.81	1.32	0.873	1.33	2.19	1.18	9.38	1934
1935	0.398	0.783	21.2	94.2	33.2	12.4	30.8	14.6	7.81	3.31	2.20	1.88	18.5	1935
1936	1.81	1.53	1.85	191	73.7	16.5	3.41	2.24	1.89	0.811	0.672	0.847	24.5	1936
1937	0.201	0.034	0.084	57.4	82.3	30.0	23.5	44.3	23.2	11.4	7.95	2.05	23.7	1937
1938	1.51	2.15	41.2	36.3	138	73.1	24.2	6.18	5.48	5.66	5.87	5.15	28.9	1938
1939	5.60	7.23	7.35	105	33.8	18.6	16.0	5.31	6.52	10.1	10.9	7.87	19.5	1939
1940	3.83	4.20	5.35	144	53.2	29.8	10.1	7.23	5.29	6.88	11.1	8.38	24.9	1940
1941	8.84	9.86	10.2	387	88.3	180	40.4	21.4	52.5	86.8	38.3	25.1	76.3	1941
1942	15.0	18.0	55.5	488	254	119	51.2	35.5	88.1	48.5	32.1	21.9	100	1942
1943	22.6	19.8	34.2	655	206	352	184	73.2	51.5	41.7	40.5	28.2	142	1943
1944	18.8	20.8	21.7	123	107	197	183	170	167	82.3	114	77.3	108	1944
1945	36.8	38.7	258	571	245	114	61.9	37.1	50.3	55.8	38.6	28.0	128	1945
1946	25.8	22.4	182	414	117	62.9	59.1	35.0	33.0	47.0	45.8	33.1	88.1	1946
1947	29.2	25.4	28.9	505	338	361	184	57.5	44.5	52.8	46.8	38.1	138	1947
1948	30.7	23.9	24.1	704	568	109	88.9	47.0	28.6	18.1	20.2	15.8	140	1948
1949	12.7	12.9	16.9	417	144	172	86.7	93.1	51.1	32.4	38.3	30.2	93.0	1949
1950	23.4	21.2	26.2	751	2 060	831	285	108	74.1	94.3	58.7	61.2	352	1950
1951	58.1	51.0	84.8	556	308	140	77.6	41.4	55.4	44.8	40.0	54.0	124	1951
1952	50.6	54.2	56.9	488	217	108	166	64.7	39.0	26.8	24.5	19.8	108	1952
1953	17.3	17.3	38.6	115	89.2	252	157	85.2	37.3	25.3	27.2	26.5	72.3	1953
1954	23.6	24.0	38.8	165	120	121	83.8	40.7	25.4	23.1	23.5	20.3	58.1	1954
1955	20.7	18.5	18.5	300	81.4	121	77.6	51.4	26.7	26.7	17.1	12.7	85.1	1955
1956	12.2	12.9	14.4	361	412	154	116	32.7	57.4	19.3	37.6	17.4	104	1956
1957	12.5	11.6	40.8	167	128	119	263	81.6	181	107	85.8	48.5	105	1957
1958	39.2	37.0	52.8	94.3	46.7	40.3	115	28.5	13.0	12.2	13.8	10.1	41.8	1958
1959	9.86	9.70	17.8	171	59.8	77.6	56.5	21.5	16.4	16.0	16.6	17.8	40.8	1959
1960	17.5	15.8	13.4	468	147	88.1	84.8	16.7	17.5	8.68	15.7	10.7	73.3	1960
1961	9.75	8.29	46.7	73.4	68.0	31.5	12.5	7.77	7.55	16.8	11.8	7.43	25.4	1961
1962	5.80	5.66	6.37	418	340	720	455	204	95.3	69.4	51.6	46.3	203	1962
1963	35.3	30.4	42.9	222	106	212	86.4	37.2	34.3	29.5	27.4	19.7	74.3	1963
1964	21.7	21.4	19.4	240	185	288	103	37.4	19.0	48.2	39.3	25.8	82.9	1964
1965	26.8	25.2	26.9	708	526	284	160	86.4	59.3	125	94.5	78.2	182	1965
1966	53.2	46.7	165	1 300	573	198	135	107	81.8	56.4	60.4	51.6	235	1966
1967	46.2	41.8	59.1	720	588	185	102	42.1	26.8	25.7	27.3	19.1	188	1967
1968	13.8	14.0	40.8	138	70.8	171	194	93.2	84.8	62.4	60.7	55.4	83.3	1968
1969	48.0	45.7	61.5	825	777	183	114	56.8	46.8	59.0	57.8	44.5	194	1969
1970	41.2	40.0	44.7	544	850	480	158	45.7	38.8	38.3	47.2	31.0	180	1970
1971	29.3	28.3	55.5	410	185	82.1	82.4	41.4	42.4	114	148	75.9	106	1971
1972	56.6	45.2	183	677	308	180	70.3	70.2	58.3	51.9	48.4	32.7	148	1972
1973	31.5	31.8	165	76.7	48.5	37.1	17.8	22.1	72.7	118	74.0	58.9	83.0	1973
1974	48.6	47.8	57.3	548	840	305	106	92.4	58.1	54.9	60.6	38.5	189	1974
1975	37.2	40.0	46.7	387	773	188	784	133	72.5	88.8	86.2	44.3	222	1975
1976	43.1	46.5	79.1	494	125	87.3	44.0	31.7	20.6	11.0	8.89	5.01	80.7	1976
1977	5.11	5.38	11.3	58.6	34.0	24.4	18.0	7.38	15.1	40.3	31.9	36.8	24.1	1977
1978	34.7	28.0	49.2	1 020	280	110	102	49.0	31.7	27.1	24.7	18.3	148	1978
1979	15.9	16.4	21.8	698	1 390	229	182	86.5	53.1	49.8	55.4	43.3	240	1979
1980	38.3	37.7	41.9	287	88.0	48.2	24.4	13.7	23.7	15.8	18.6	10.2	51.7	1980
1981	8.27	8.40	41.6	51.2	38.3	44.6	77.5	43.0	51.2	88.0	55.6	31.3	43.6	1981
1982	32.6	29.9	49.7	625	251	121	116	88.4	38.1	124	71.8	54.8	132	1982
1983	46.7	39.0	285	355	114	144	184	74.3	78.9	63.1	80.5	48.8	123	1983
1984	38.1	36.1	82.0	542	120	328	98.3	43.3	27.2	52.4	52.7	40.9	121	1984
1985	34.2	32.7	183	208	258	225	209	208	168	128	78.5	59.4	150	1985
1986	57.0	51.3	172	760	831	208	142	80.6	82.8	102	59.0	56.2	201	1986
1987	51.1	45.7	195	837	120	104	88.0	74.0	31.4	23.5	23.7	19.9	118	1987
1988	13.3	14.4	53.9	188	40.9	30.8	13.1	7.98	8.41	8.55	8.77	7.27	33.8	1988
MEAN	22.7	21.4	56.8	357	241	142	108	49.5	41.7	41.4	36.9	27.1	86.9	MEAN

LOCATION - LAT 49 00 20 N LONG 97 12 40 W DRAINAGE AREA, 104 000 km² REGULATED INTERNATIONAL GAUGING STATION

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	725 ON APR 11	7.36 B ON MAR 6	1 860 000	1913
1914	---	206 ON JUN 18	13.9 B ON FEB 1	1 760 000	1914
1915	---	589 ON JUL 9	21.0 B ON JAN 1	2 830 000	1915
1916	---	1 310 ON APR 24	21.4 B ON FEB 13	6 580 000	1916
1917	---	733 ON APR 12	8.50 B ON DEC 31	2 270 000	1917
1918	---	1418 ON APR 3	5.30 B ON JAN 31	905 000	1918
1919	---	379 ON JUL 11	11.3 B ON FEB 28	2 320 000	1919
1920	---	7568 ON APR 15	19.5 B ON JAN 1	3 080 000	1920
1921	---	3?2 ON APR 15	14.8 B ON NOV 24	1 500 000	1921
1922	---	8J5 ON APR 14	10.1 B ON FEB 17	2 330 000	1922
1923	---	738 ON APR 25	8.51 B ON JAN 7	1 870 000	1923
1924	---	179 ON APR 28	4.39 B ON DEC 31	831 000	1924
1925	---	486 ON JUN 21	3.54 B ON FEB 5	1 880 000	1925
1926	---	2278 ON APR 1	6.71 ON SEP 7	1 280 000	1926
1927	---	580 ON MAY 15	10.4 B ON FEB 4	3 820 000	1927
1928	---	476 ON APR 8	16.4 B ON JAN 5	2 280 000	1928
1929	---	544 ON APR 1	6.85 B ON NOV 30	1 610 000	1929
1930	---	589 ON APR 10	4.36 ON OCT 8	1 800 000	1930
1931	---	225 ON APR 10	1.04 ON OCT 5	546 000	1931
1932	---	5358 ON APR 15	0.880 ON SEP 28	934 000	1932
1933	---	3118 ON APR 9	0.708 ON SEP 5	736 000	1933
1934	---	1368 ON APR 13	0.4258 ON DEC 31	297 000	1934
1935	---	1558 ON APR 2	0.3408 ON JAN 3	585 000	1935
1936	---	510 ON APR 21	0.4818 ON DEC 17	774 000	1936
1937	---	165 ON MAY 6	0.0258 ON FEB 6 *	748 000	1937
1938	---	213 ON MAY 19	0.8638 ON JAN 7	812 000	1938
1939	---	1908 ON APR 10	3.34 ON AUG 18	814 000	1939
1940	---	4138 ON APR 21	2.89 B ON JAN 18	785 000	1940
1941	---	787 ON APR 16	7.50 B ON JAN 9	2 400 000	1941
1942	---	780 ON APR 10	13.4 B ON JAN 16	3 180 000	1942
1943	---	835 ON APR 20	16.5 B ON FEB 28	4 470 000	1943
1944	---	3488 ON APR 19	17.8 B ON JAN 2	3 400 000	1944
1945	---	8338 ON APR 4	25.5 B ON DEC 23	4 040 000	1945
1946	---	6828 ON APR 5	18.2 B ON FEB 23	2 810 000	1946
1947	---	804 ON APR 28	22.8 B ON FEB 27	4 390 000	1947
1948	---	1 470 ON APR 27	13.8 B ON DEC 31	4 420 000	1948
1949	---	827 ON APR 15	11.6 B ON JAN 20	2 930 000	1949
1950	---	2 670 ON MAY 13 *	18.7 B ON FEB 1	11 100 000	1950
1951	---	783 ON APR 15	32.0 B ON NOV 25	3 810 000	1951
1952	---	685 ON APR 24	17.0 B ON DEC 29	3 450 000	1952
1953	---	411 ON JUN 28	16.3 B ON JAN 16	2 280 000	1953
1954	---	3268 ON APR 17	16.1 B ON DEC 9	1 880 000	1954
1955	880 AT 04:00 CST ON APR 10	883 ON APR 10	10.8 B ON DEC 30	2 050 000	1955
1956	957 AT 07:00 CST ON APR 27	954 ON APR 26	10.5 B ON JAN 1	3 280 000	1956
1957	433 AT 03:00 CST ON JUL 5	433 ON JUL 4	10.2 B ON JAN 31	3 310 000	1957
1958	225 AT 08:00 CST ON JUL 12	223 ON JUL 12	5.78 B ON DEC 21	1 320 000	1958
1959	---	4458 ON APR 10	7.70 B ON JAN 1	1 280 000	1959
1960	884 AT 12:00 CST ON APR 13	884 ON APR 13	7.82 ON OCT 10	2 310 000	1960
1961	1228 AT 11:00 CST ON MAR 31	1218 ON MAR 30	3.46 ON SEP 7	800 000	1961
1962	846 AT 17:30 CST ON APR 25	843 ON APR 25	4.47 B ON JAN 28	6 390 000	1962
1963	391 AT 14:00 CST ON APR 13	386 ON APR 13	18.3 B ON DEC 5	2 340 000	1963
1964	---	498A ON JUN 25	10.3 A ON SEP 20	2 620 000	1964
1965	1 310 AT 08:00 CST ON APR 25	1 310 ON APR 25	24.8 B ON FEB 4	5 730 000	1965
1966	1 890 AT 15:00 CST ON APR 11	1 880 ON APR 11	40.5 B ON DEC 9	7 420 000	1966
1967	9518 AT 11:20 CST ON APR 9	940 ON APR 30	15.6 B ON DEC 24	4 800 000	1967
1968	---	394 ON JUL 24	11.4 B ON MAR 2	2 640 000	1968
1969	---	1 550 ON APR 28	31.7 B ON NOV 24	8 110 000	1969
1970	---	1 120 ON APR 28	26.5 B ON DEC 18	5 680 000	1970
1971	---	753 ON APR 16	24.4 ON OCT 2	3 340 000	1971
1972	---	868 ON APR 23	30.6 B ON DEC 11	4 700 000	1972
1973	4188 AT 12:40 CST ON MAR 27	4028 ON MAR 27	12.7 ON JUL 24	1 990 000	1973
1974	1 230 AT 14:39 CST ON APR 28	1 230 ON APR 28	33.7 B ON DEC 18	5 950 000	1974
1975	1 210 AT 03:14 CST ON MAY 8	1 210 ON MAY 7	27.8 B ON JAN 21	7 010 000	1975
1976	8328 AT 05:30 CST ON APR 6	886 ON APR 7	4.08 B ON DEC 15	2 550 000	1976
1977	130 AT 11:00 CST ON APR 10	128 ON APR 10	4.67 B ON MAR 8	781 000	1977
1978	1 430 AT 15:22 CST ON APR 18	1 420 ON APR 18	18.1 B ON DEC 18	4 670 000	1978
1979	2 830 AT 20:00 CST ON MAY 1 *	2 820 ON MAY 1	15.1 B ON FEB 6	7 580 000	1979
1980	---	814 ON APR 10	8.64 B ON DEC 31	1 840 000	1980
1981	174 AT 13:00 CST ON JUL 4	173 ON JUL 4	6.87 B ON FEB 8	1 370 000	1981
1982	866 AT 22:53 CST ON APR 18	863 ON APR 18	27.6 B ON FEB 7	4 180 000	1982
1983	732 AT 00:00 CST ON APR 10	714 ON APR 10	33.4 B ON FEB 27	3 880 000	1983
1984	---	855 ON APR 8	8.08 ON OCT 14	3 820 000	1984
1985	4778 AT 00:28 CST ON MAR 30	4728 ON MAR 29	32.0 B ON FEB 5	4 730 000	1985
1986	---	869 ON APR 7	47.7 B ON MAR 3	6 330 000	1986
1987	---	1 060 ON APR 9	18.8 B ON DEC 28	3 710 000	1987
1988	4618 AT 23:00 CST ON APR 7	4448 ON APR 8	5.00 B ON NOV 18	1 070 000	1988
				3 020 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	223	256	0	0	0	0	0	---	---	59.6	1969
1970	---	---	0	167	43.7	0	0	0	0	0	---	---	28.0	1970
1971	---	---	0	72.5	0	0	0	0	0	0	---	---	8.88	1971
1972	---	---	0	14.4	0	0	0	0	0	0	---	---	1.78	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	382	414	0	0	0	0	0	---	---	96.7	1974
1975	---	---	0	0	140	0	0	0	0	0	---	---	17.7	1975
1976	---	---	0	76.9	0	0	0	0	0	0	---	---	9.88	1976
MEAN	---	---	0	115	107	0	0	0	0	0	---	---	27.6	MEAN

LOCATION - LAT 50 05 00 N
LONG 98 55 40 W REGULATED SINCE 1969

REMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR LOCKPORT - STATION NO. 05OJ014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	848 AT 13:57 CST ON MAY 1	837 ON MAY 1	0 ON MAR 1 *	1 280 000	1969
1970	882 AT 04:10 CST ON MAY 2 *	882 ON MAY 1	0 ON MAR 1	551 000	1970
1971	---	288 ON APR 14	0 ON MAR 1	188 000	1971
1972	---	85.7 ON APR 18	0 ON MAR 1	37 200	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 130 ON APR 24 *	0 ON MAR 1	2 050 000	1974
1975	283 AT 13:50 CST ON MAY 8	279 ON MAY 8	0 ON MAR 1	374 000	1975
1976	---	306 ON APR 11	0 ON MAR 1	205 000	1976
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		583 000	MEAN

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
969	---	---	0	224	237	0	0	0	0	0	---	---	57.4	1969
970	---	---	0	150	214	0	0	0	0	0	---	---	45.4	1970
971	---	---	0	64.6	0	0	0	0	0	0	---	---	8.88	1971
972	---	---	0	4.15	0	0	0	0	0	0	---	---	0.508	1972
973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
974	---	---	0	341	383	0	0	0	0	0	---	---	87.7	1974
975	---	---	0	0.377	132	0	0	0	0	0	---	---	18.8	1975
976	---	---	0	73.5	0	0	0	0	0	0	---	---	9.01	1976
977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
978	---	---	0	231	11.8	0	0	0	0	0	---	---	29.8	1978
979	---	---	0	288	795	0	0	0	0	0	---	---	136	1979
980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
981	---	---	0	0	0	0	0	0	0	0	---	---	0	1981
982	---	---	0	2.55	0	0	0	0	0	0	---	---	0.313	1982
983	---	---	0	2.26	0	0	0	0	0	0	---	---	0.277	1983
984	---	---	0	0	0	0	0	0	0	0	---	---	0	1984
985	---	---	0	0	0	0	0	0	0	0	---	---	0	1985
986	---	---	0	68.8	4.72	0	0	0	0	0	---	---	9.02	1986
987	---	---	---	---	---	---	---	---	---	---	---	---	---	1987
988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
EAN	---	---	0	76.7	92.5	0	0	0	0	0	---	---	21.0	MEAN

LOCATION - LAT 49 45 24 N
LONG 97 07 36 W REGULATED SINCE 1969

EMARKS - LOCAL RUNOFF IS NOT INCLUDED: ONLY DIVERTED FLOWS ARE MONITORED

RED RIVER FLOODWAY NEAR ST. NORBERT - STATION NO. 05OC017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	526 AT 16:35 CST ON MAY 2	526 ON MAY 3	0 ON MAR 1 *	1 220 000	1969
1970	648 AT 08:46 CST ON MAY 1	646 ON MAY 1	0 ON MAR 1	661 000	1970
1971	---	257 ON APR 14	0 ON MAR 1	141 000	1971
1972	---	33.4 ON APR 18	0 ON MAR 1	10 700	1972
1973	---	0 ON MAR 1	0 ON MAR 1	0	1973
1974	---	1 040 ON APR 24	0 ON MAR 1	1 880 000	1974
1975	274 AT 10:00 CST ON MAY 8	267 ON MAY 7	0 ON MAR 1	355 000	1975
1976	---	282 ON APR 11	0 ON MAR 1	191 000	1976
1977	---	0 ON MAR 1	0 ON MAR 1	0	1977
1978	544 AT 03:00 CST ON APR 18	513 ON APR 16	0B ON MAR 1	632 000	1978
1979	1 190 AT 16:14 CST ON MAY 9 *	1 190 ON MAY 9 *	0 ON MAR 1	2 870 000	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0 ON MAR 1	0 ON MAR 1	0	1981
1982	18.5 AT 15:50 CST ON APR 18	17.8 ON APR 18	0 ON MAR 1	6 820	1982
1983	31.7 AT 02:14 CST ON APR 11	28.4 ON APR 11	0 ON MAR 1	5 860	1983
1984	---	0 ON MAR 1	0 ON MAR 1	0	1984
1985	---	0 ON MAR 1	0 ON MAR 1	0	1985
1986	283 AT 19:58 CST ON APR 2	278 ON APR 3	0 ON MAR 1	191 000	1986
1987	511 AT 02:00 CST ON APR 10	507 ON APR 10	---	---	1987
1988	---	0 ON MAR 1	0 ON MAR 1	0	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		444 000	MEAN

RED RIVER NEAR LOCKPORT - STATION NO. 05OJO10

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1962	---	---	---	537	513	516	514	288	158	81.9	76.2	60.5	---	1962
1963	40.2	36.1	60.4	433	188	380	150	66.0	45.1	50.5	66.3	26.3	128	1963
1964	29.1	31.8	31.7	426	336	314	167	97.1	41.8	100	69.3	36.9	136	1964
1965	34.1	35.6	35.6	1 040	997	883	243	96.3	75.8	214	142	106	283	1965
1966	76.5	80.5	183	1 950	1 080	332	274	132	118	67.4	75.7	58.9	364	1966
1967	51.5	48.4	58.4	1 230	901	293	133	86.2	46.5	32.6	21.4	26.1	241	1967
1968	22.1	18.8	82.0	308	140	231	283	194	188	104	73.7	51.6	140	1968
1969	41.2	46.5	97.4	1 200	1 400	366	253	112	78.6	84.2	79.8	50.7	317	1969
1970	54.3	52.9	53.8	861	1 350	785	371	110	65.2	64.8	79.0	54.3	328	1970
1971	40.3	38.8	58.4	737	288	232	174	94.0	76.4	175	205	93.3	185	1971
1972	84.8	61.5	208	910	523	316	135	102	74.8	79.0	67.3	61.3	224	1972
1973	52.2	46.3	217	133	71.0	67.0	42.9	41.0	78.4	167	99.9	79.1	91.7	1973
1974	64.8	62.4	76.9	1 010	1 780	777	285	174	121	105	105	85.7	387	1974
1975	76.7	85.7	81.0	446	1 170	471	895	280	150	174	139	104	350	1975
1976	92.9	88.6	98.3	1 000	563	336	214	124	71.2	46.7	31.8	23.2	224	1976
1977	30.3	29.2	36.6	97.4	57.8	47.3	43.7	35.2	41.1	73.3	50.8	69.6	51.1	1977
1978	55.8	49.2	63.0	1 270	493	184	134	77.3	64.1	47.7	31.4	30.6	205	1978
1979	25.2	28.9	40.9	941	2 200	611	342	144	82.9	61.4	71.4	57.8	388	1979
1980	63.7	60.5	64.6	467	98.1	80.6	45.3	37.6	46.0	43.6	44.4	29.9	87.6	1980
1981	22.1	24.5	75.7	84.0	59.3	83.5	108	51.6	88.1	108	83.0	45.4	89.6	1981
1982	40.8	42.6	60.7	814	495	241	165	108	83.7	162	104	80.6	198	1982
1983	66.5	64.1	350	788	334	286	272	116	124	121	121	68.9	225	1983
1984	61.2	55.8	90.7	644	173	406	156	80.5	42.9	75.0	67.5	60.4	158	1984
1985	55.8	52.6	267	470	377	342	286	285	240	179	117	89.5	228	1985
1986	86.5	77.7	275	1 190	986	331	209	101	93.7	131	83.7	75.2	304	1986
1987	74.8	67.1	189	1 140	206	154	115	116	51.8	47.3	36.1	32.1	185	1987
1988	23.5	20.8	67.7	284	105	86.2	49.0	22.1	22.5	26.2	15.6	14.8	59.5	1988
MEAN	51.8	48.6	110	758	526	332	227	115	86.6	87.4	80.6	58.3	214	MEAN

LOCATION - LAT 50 05 28 N
LONG 96 55 54 W

DRAINAGE AREA, 287 000 km^2
REGULATED

RED RIVER NEAR LOCKPORT - STATION NO. 05OJ010

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	1 720 ON APR 25	---	---	1962
1963	---	782 ON APR 11	24.0B ON DEC 25	3 880 000	1963
1964	---	1 000B ON APR 18	26.2B ON JAN 1	4 310 000	1964
1965	---	1 890 ON APR 19	32.6B ON JAN 9	9 240 000	1965
1966	---	2 570A ON APR 14	51.0B ON MAR 15	11 800 000	1966
1967	---	1 850B ON APR 26	15.0 ON NOV 9	7 810 000	1967
1968	---	480B ON APR 11	18.7B ON MAR 2	4 420 000	1968
1969	---	2 200 ON MAY 1	40.8B ON JAN 10	9 950 000	1969
1970	---	2 040 ON MAY 2	48.0B ON DEC 28	10 300 000	1970
1971	---	1 580B ON APR 13	36.8B ON JAN 11	5 830 000	1971
1972	---	1 130B ON APR 23	41.1B ON DEC 12	7 090 000	1972
1973	---	535B ON MAR 28	30.3 ON SEP 8	2 880 000	1973
1974	2 520 AT 05:40 CST ON APR 26	2 510 ON APR 26	52.4B ON FEB 2	12 200 000	1974
1975	---	1 480 ON MAY 13	62.6B ON FEB 1	11 000 000	1975
1976	1 570B AT 23:30 CST ON APR 8	1 530 ON APR 9	18.3B ON DEC 5	7 070 000	1976
1977	---	188B ON APR 13	19.0 ON AUG 29	1 810 000	1977
1978	---	1 810B ON APR 17	24.0B ON NOV 15	6 480 000	1978
1979	2 780 AT 15:44 CST ON MAY 8 *	2 780 ON MAY 8 *	23.8B ON JAN 16	12 200 000	1979
1980	---	1 010B ON APR 12	19.7B ON DEC 26	2 780 000	1980
1981	---	234 ON JUL 5	19.8B ON JAN 9	2 200 000	1981
1982	---	1 310 ON APR 18	37.3B ON JAN 12	6 280 000	1982
1983	---	1 580B ON APR 10	56.5B ON MAR 3	7 080 000	1983
1984	---	1 100B ON APR 8	38.4 ON OCT 18	5 010 000	1984
1985	---	869B ON APR 3	49.0B ON FEB 5	7 230 000	1985
1986	---	1 760B ON APR 1	85.0B ON MAR 10	9 800 000	1986
1987	2 180 AT 08:50 CST ON APR 8	2 120 ON APR 8	26.0B ON NOV 27	5 830 000	1987
1988	---	541 ON APR 8	11.0B ON DEC 17 *	1 880 000	1988
				6 750 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	---	49.6	44.4	136	35.3	17.2	18.4	---	---	---	1958
1959	---	---	16.8	218	101	121	69.4	27.8	18.1	40.4	---	---	---	1959
1960	---	---	13.9	525	208	119	80.2	22.1	21.9	11.0	19.0	10.2	---	1960
1961	9.11	8.25	52.0	96.1	84.9	38.8	14.4	8.20	8.54	21.0	14.7	8.77	30.6	1961
1962	5.82	5.42	8.24	532	442	743	504	255	117	71.5	61.9	48.5	233	1962
1963	33.7	30.6	44.7	281	127	273	104	43.8	35.9	40.3	28.5	20.7	88.4	1963
1964	21.4	22.8	19.8	312	197	277	147	46.3	31.7	89.2	44.4	28.6	101	1964
1965	25.0	25.6	26.4	761	666	227	187	74.5	66.6	143	105	101	210	1965
1966	76.2	53.6	147	1 530	747	264	222	114	96.8	56.6	54.0	50.1	283	1966
1967	41.5	36.3	50.7	935	674	219	114	43.1	27.1	27.5	17.1	18.3	184	1967
1968	15.6	12.3	44.1	188	89.6	195	249	174	151	82.3	80.6	51.4	110	1968
1969	40.7	35.2	53.5	815	981	225	141	68.7	49.8	62.5	58.7	44.4	214	1969
1970	40.0	36.3	40.7	645	954	586	225	47.6	41.5	37.6	44.2	31.8	228	1970
1971	28.3	26.6	65.5	604	186	103	84.9	44.6	44.4	112	155	82.0	126	1971
1972	44.0	46.1	181	750	387	190	74.5	73.8	58.0	55.8	42.4	30.1	161	1972
1973	29.3	31.8	192	84.5	54.3	41.4	20.1	20.6	89.6	139	80.9	61.3	68.0	1973
1974	49.1	48.9	56.6	657	1 120	402	113	98.6	73.9	61.4	61.3	38.4	232	1974
1975	35.6	39.2	46.7	367	894	228	837	172	72.6	65.0	80.3	50.5	241	1975
1976	45.6	48.7	98.0	825	153	76.5	47.9	30.6	21.4	10.8	8.30	4.57	84.6	1976
1977	4.07	5.36	10.5	56.9	40.0	27.2	17.0	8.23	12.8	42.0	25.3	40.7	25.1	1977
1978	36.2	31.4	42.3	1 040	430	127	105	58.9	41.1	31.6	19.3	21.7	185	1978
1979	17.5	17.9	22.2	680	1 760	308	199	101	62.7	44.0	50.5	38.5	277	1979
1980	38.8	38.1	43.4	362	70.8	51.3	24.4	17.4	25.8	14.1	10.4	11.3	56.8	1980
1981	7.25	8.88	42.8	54.2	39.4	55.9	87.3	40.7	59.5	77.0	61.0	35.6	47.7	1981
1982	31.2	28.2	42.1	688	304	147	128	78.9	40.5	139	75.6	60.1	147	1982
1983	44.8	40.8	328	527	137	150	208	72.1	87.7	62.7	61.7	47.8	147	1983
1984	38.0	37.2	77.1	586	132	334	113	44.9	32.0	53.9	61.9	43.5	128	1984
1985	33.0	29.8	200	283	290	274	238	238	204	145	87.7	56.2	174	1985
1986	51.1	45.2	180	884	728	258	155	78.4	73.2	104	64.0	56.7	224	1986
1987	54.1	46.2	180	777	131	123	90.8	85.3	29.6	20.5	17.3	20.2	131	1987
1988	15.6	17.5	68.2	203	40.3	35.5	15.6	11.2	9.54	10.7	7.73	7.58	38.7	1988
MEAN	32.7	30.5	78.8	538	394	205	153	72.1	55.0	60.3	50.3	38.0	149	MEAN

LOCATION - LAT 49 33 40 N LONG 97 10 52 W DRAINAGE AREA, 117 000 km^2 REGULATED

RED RIVER NEAR STE. AGATHE - STATION NO. 05OC012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	---	---	---	1958
1959	---	4788 ON APR 11	---	---	1959
1960	---	1 080 ON APR 17	---	---	1960
1961	---	1508 ON MAR 31	3.85 ON SEP 9	984 000	1961
1962	---	1 280A ON APR 25	4.398 ON FEB 5	7 380 000	1962
1963	5528 AT 12:30 CST ON APR 10	5078 ON APR 10	19.5 B ON DEC 5	2 780 000	1963
1964	---	8548 ON APR 19	18.6 B ON MAR 10	3 200 000	1964
1965	1 280 AT 18:00 CST ON APR 19	1 280 ON APR 19	23.1 B ON JAN 21	6 810 000	1965
1966	---	1 870A ON APR 15	40.8 B ON MAR 15	8 930 000	1966
1967	1 270B AT 14:00 CST ON APR 9	1 180B ON APR 9	8.648 ON NOV 14	5 780 000	1967
1968	436 AT 17:00 CST ON JUL 25	430 ON JUL 25	9.778 ON MAR 7	3 480 000	1968
1969	1 480 AT 11:30 CST ON MAY 2	1 480 ON MAY 1	32.8 B ON FEB 8	8 740 000	1969
1970	1 450 AT 20:15 CST ON MAY 1	1 450 ON APR 30	27.4 B ON DEC 3	7 180 000	1970
1971	---	1 210B ON APR 13	25.2 B ON FEB 8	3 980 000	1971
1972	971 AT 12:40 CST ON APR 25	868 ON APR 25	27.4 B ON DEC 8	5 080 000	1972
1973	---	4738 ON MAR 28	12.8 ON AUG 3	2 180 000	1973
1974	---	1 420 ON APR 25	34.8 B ON DEC 7	7 320 000	1974
1975	---	1 210 ON MAY 11	28.0 B ON JAN 24	7 810 000	1975
1976	1 190B AT 23:00 CST ON APR 8	1 180B ON APR 8	3.828 ON DEC 21	2 980 000	1976
1977	---	133E ON APR 12	3.808 ON JAN 13 *	781 000	1977
1978	---	1 400 ON APR 21	14.5 B ON NOV 14	5 190 000	1978
1979	2 330 AT 17:45 CST ON MAY 4 *	2 320 ON MAY 4 *	15.2 B ON FEB 4	8 730 000	1979
1980	784 AT 05:57 CST ON APR 12	748B ON APR 12	7.018 ON NOV 18	1 800 000	1980
1981	181 AT 15:41 CST ON JUL 5	180 ON JUL 5	6.788 ON JAN 18	1 500 000	1981
1982	1 070 AT 00:38 CST ON APR 17	1 070 ON APR 17	28.6 B ON FEB 9	4 630 000	1982
1983	1 030B AT 01:00 CST ON APR 11	1 010B ON APR 11	35.1 B ON MAR 2	4 840 000	1983
1984	1 060 AT 19:32 CST ON APR 8	953B ON APR 7	21.2 ON OCT 16	4 070 000	1984
1985	---	572B ON APR 3	29.3 B ON FEB 28	5 480 000	1985
1986	1 150 AT 23:22 CST ON APR 2	1 140A ON APR 1	44.5 B ON MAR 3	7 050 000	1986
1987	1 390 AT 10:30 CST ON APR 8	1 390A ON APR 8	14.7 B ON NOV 19	4 120 000	1987
1988	449 AT 12:00 CST ON APR 8	441B ON APR 8	5.068 ON NOV 21	1 180 000	1988
				4 690 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.044	3.17	2.95	0.459	0.048	0.055	0.045	0.056	---	---	---	1980
1981	---	---	0.092	0.205	0.804	0.301	0.077	0.058	0.037	0.122	---	---	---	1981
1982	---	---	0	0.255	7.54	3.95	0.838	5.21	2.08	0.043	---	---	---	1982
1983	---	---	0.082	2.01	2.81	3.76	0.547	1.57	0.368	0.247	---	---	---	1983
1984	---	---	0.221	1.99	4.11	0.362	0.412	0.531	0.842	1.82	---	---	---	1984
1985	---	---	0.105	4.01	4.02	0.548	1.08	0.378	0.377	---	---	---	---	1985
1986	---	---	0.300	4.88	5.89	1.03	2.28	0.082	0.122	0.187	0.248	0.323	---	1986
1987	0.311	0.251	0.184	3.55	3.04	0.017	0.093	2.04	0.428	0.021	0.019	0.047	0.837	1987
1988	0.112	0.101	0.084	1.90	1.87	1.48	1.45	0.224	0.491	1.88	0.827	0.403	0.903	1988
1989	0.280	0.259	0.180	1.37	1.89	0.181	0.200	0.151	0.141	0.107	0.105	0.080	0.407	1989
1970	0.147	0.132	0.149	0.880	5.05	2.26	0.051	0.018	0.018	0.018	1.23	0.880	0.874	1970
1971	0.295	0.164	0.184	2.43	1.77	0.352	0.847	0.038	0.041	0.027	0.202	0.713	0.571	1971
1972	0.210	0.186	0.162	0.894	1.44	0.180	0.008	0.006	0.004	0.003	0.001	0.001	0.264	1972
1973	0.003	0.022	0.121	0.014	0.024	3.51	0.883	0.478	0.580	4.10	1.97	0.783	1.04	1973
1974	0.382	0.244	0.184	3.38	6.11	1.81	0.107	0.028	0.382	0.531	0.318	0.237	1.13	1974
1975	0.201	0.153	0.147	0.898	1.89	0.458	1.85	0.055	0.280	0.231	0.448	0.220	0.556	1975
1976	0.194	0.129	0.137	1.66	1.22	0.129	0.516	0.032	0.014	0.008	0.003	0.005	0.338	1976
1977	0.003	0.002	0.004	0.005	0.007	1.81	1.05	0.093	0.143	0.873	0.786	0.750	0.481	1977
1978	0.448	0.244	0.141	1.66	3.41	0.746	0.180	0.045	0.026	0.195	0.227	0.144	0.823	1978
1979	0.138	0.135	0.177	0.890	3.57	0.843	0.087	0.084	0.034	0.013	0.043	0.127	0.512	1979
1980	0.156	0.177	0.171	0.244	0.328	0.085	0.104	0.062	0.528	0.356	0.350	0.360	0.241	1980
1981	0.185	0.160	0.022	0.005	0.012	0.008	0.010	0.022	0.203	1.85	0.877	0.540	0.310	1981
1982	0.247	0.174	0.088	0.410	1.82	0.724	0.635	0.244	0.032	0.438	0.389	0.250	0.488	1982
1983	0.204	0.140	0.173	0.155	1.12	1.11	0.428	0.044	0.018	0.018	0.005	0.003	0.285	1983
1984	0.002	0.001	0.066	0.010	0.003	1.89	0.762	0.043	0.005	0.378	1.26	0.848	0.404	1984
1985	0.320	0.171	0.083	---	---	0.573	0.784	0.413	0.824	0.788	0.841	0.494	---	1985
1986	0.255	0.149	0.128	2.23	4.81	0.120	0.029	0.019	0.009	0.007	0.009	0.011	0.837	1986
1987	0.003	0.002	0.005	1.16	0.275	0.137	0.057	0.037	0.013	0.005	0.004	0.003	0.141	1987
1988	0.006	0.005	0.006	0.014	0.005	0.014	0.021	0.025	0.011	0.008	0.054	0.122	0.024	1988
MEAN	0.193	0.136	0.118	1.42	2.42	0.980	0.517	0.415	0.273	0.511	0.435	0.301	0.524	MEAN

LOCATION - LAT 49 55 42 N
LONG 95 32 40 W
DRAINAGE AREA, 159 km^2
REGULATED

RENNIE RIVER NEAR RENNIE - STATION NO. 05PG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	7.31 ON APR 25	0 B ON MAR 25 *	---	1960
1961	---	1.14 ON MAY 18	0.014 ON AUG 24	---	1961
1962	---	14.0 ON MAY 26 *	0 B ON MAR 1	---	1962
1963	---	5.44 ON JUN 13	0.082B ON MAR 1	---	1963
1964	---	5.87 ON MAY 8	0.011B ON MAR 1	---	1964
1965	---	6.03 ON MAY 7	---	---	1965
1966	---	6.44 E ON APR 17	0.028 ON JUN 21	---	1966
1967	---	7.16 E ON APR 24	0.003E ON OCT 24	28 400	1967
1968	---	3.31 E ON APR 24	0.042E ON AUG 29	28 500	1968
1969	---	3.80 ON MAY 1	0.042 ON NOV 27	12 800	1969
1970	8.43 AT 14:17 CST ON MAY 6	8.40 ON MAY 6	0 ON APR 2	27 500	1970
1971	7.70 AT 13:21 CST ON APR 22	7.39 ON APR 24	0.012 ON MAY 28	18 000	1971
1972	---	2.80 ON MAY 9	0 ON DEC 23	8 030	1972
1973	---	14.0 E ON JUN 20	0 ON JAN 1	32 900	1973
1974	12.7 AT 14:20 CST ON APR 26 *	12.5 ON APR 26	0.012 ON AUG 10	35 500	1974
1975	3.88 IN JUL	3.88 ON JUL 4	0 ON MAY 30	17 600	1975
1976	---	3.91 E ON APR 29	0 ON MAY 18	10 700	1976
1977	7.76 AT 15:09 CST ON JUN 25	7.14 ON JUN 26	0.002E ON FEB 6	14 500	1977
1978	9.80 AT 15:56 CST ON MAY 2	8.61 ON MAY 3	0.004 ON SEP 30	19 700	1978
1979	---	4.45 E ON MAY 6	0.005A ON JUN 14	18 200	1979
1980	1.28 AT 09:23 CST ON SEP 22	1.12 ON SEP 23	0.020 ON JUN 27	7 840	1980
1981	5.88 AT 09:36 CST ON OCT 6	4.97 ON OCT 7	0 B ON APR 7	9 780	1981
1982	3.86 AT 07:48 CST ON MAY 19	3.36 ON MAY 20	0.011 ON SEP 21	14 700	1982
1983	2.56 AT 14:27 CST ON MAY 18	2.35 ON MAY 19	0.003 ON DEC 7	9 000	1983
1984	4.30 AT 14:46 CST ON JUN 18	4.18 ON JUN 19	0 ON OCT 18	12 400	1984
1985	---	---	---	---	1985
1986	---	11.7 A ON MAY 10	0.005 ON OCT 11	20 000	1986
1987	3.81 AT 13:39 CST ON APR 18	3.54 ON APR 18	0.002 ON JAN 10	4 450	1987
1988	0.305 AT 09:29 CST ON OCT 25	0.190 ON DEC 27	0.002 ON MAY 1	770	1988
				16 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05DC022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1971	---	---	0	4.81	0.019	0	0	0	0	0	---	---	0.804	1971
1972	---	---	0.478	1.24	0.001	0	0	0	0	0	---	---	0.213	1972
1973	---	---	0.187	0.001	0	0	0	0	0	0.249	---	---	0.053	1973
1974	---	---	0	10.8	28.5	0.437	0	0	0	0	---	---	4.88	1974
1975	---	---	0	0.587	0.288	0.010	0.012	0	0	0	---	---	0.108	1975
1976	---	---	0	2.74	0.003	0.059	0.003	0	0	0	---	---	0.344	1976
1977	---	---	0	0.039	0.029	0.158	0	0	0	0	---	---	0.028	1977
1978	---	---	0.323	2.45	0.014	0	0	0	0.009	0.004	---	---	0.346	1978
1979	---	---	0	11.4	4.87	0.478	0.104	0	0	0	---	---	2.08	1979
1980	---	---	0	0.394	0	0	0	0	0	0	---	---	0.048	1980
1981	---	---	0.206	0.032	0.003	0.010	0	0	0	0	---	---	0.032	1981
1982	---	---	0.068	0.825	0	0	0.003	0.013	0.002	0.047	---	---	0.130	1982
1983	---	---	0.553	2.24	0.003	0.001	0.002	0	0	0	---	---	0.345	1983
1984	---	---	0.002	0.080	0.002	0.003	0	0	0	0	---	---	0.011	1984
1985	---	---	0.648	0.051	0.002	0	0	0.038	0.002	0.031	---	---	0.123	1985
1986	---	---	1.87	0.781	0.208	0.007	0.040	0.001	0	0	---	---	0.382	1986
1987	---	---	0.002	4.10	0.012	0.007	0	0	0	0	---	---	0.505	1987
1988	---	---	0	0.130	0	0	0	0	0	0	---	---	0.018	1988
MEAN	---	---	0.251	2.38	1.89	0.065	0.009	0.003	0.001	0.018	---	---	0.574	MEAN

LOCATION - LAT 49 03 30 N
LONG 97 18 50 W
DRAINAGE AREA, 201 km^2
NATURAL FLOW

RIVIERE AUX MARAIS NEAR CHRISTIE - STATION NO. 05DC022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1971	---	13.3 ON APR 13	0B ON MAR 1 *	12 800	1971
1972	---	5.84 ON APR 14	0B ON MAR 1	4 500	1972
1973	---	1.26 ON MAR 23	0B ON MAR 1	1 120	1973
1974	---	75.0 ON MAY 2 *	0B ON MAR 1	105 000	1974
1975	---	3.20 ON APR 30	0B ON MAR 1	2 290	1975
1976	---	18.3 ON APR 6	0B ON MAR 1	7 270	1976
1977	---	1.07 ON JUN 1	0B ON MAR 1	586	1977
1978	---	8.21 ON APR 9	0B ON MAR 1	7 320	1978
1979	37.6 AT 02:41 CST ON APR 19 *	36.4 ON APR 19	0B ON MAR 1	44 100	1979
1980	---	3.81 B ON APR 2	0B ON MAR 1	1 020	1980
1981	---	0.500B ON MAR 14	0B ON MAR 1	888	1981
1982	5.40 AT 01:38 CST ON APR 14	5.15 ON APR 14	0B ON MAR 1	2 760	1982
1983	8.23 B AT 09:25 CST ON APR 7	7.95 B ON APR 7	0B ON MAR 1	7 300	1983
1984	---	0.377 ON APR 3	0B ON MAR 1	228	1984
1985	7.29 B AT 15:40 CST ON MAR 19	6.15 B ON MAR 20	0B ON MAR 1	2 590	1985
1986	---	16.1 B ON MAR 26	0B ON MAR 1	7 660	1986
1987	23.8 AT 02:47 CST ON APR 7	23.3 ON APR 6	0B ON MAR 1	10 700	1987
1988	0.973 AT 18:11 CST ON APR 5	0.879 ON APR 5	0B ON MAR 1	338	1988
				12 100	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROARING RIVER NEAR MINITONAS - STATION NO. OSLE005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	4.31	4.90	5.00	3.80	0.292	1.89	2.84	---	---	---	1959
1960	---	---	0.080	11.3	8.35	5.67	0.898	0.187	0	0.038	---	---	3.41	1960
1961	---	---	0.042	0.444	0.784	0.149	0.008	0	0	0.003	---	---	0.179	1961
1962	---	---	0	3.07	1.45	0.350	0.058	0.008	0.299	0.542	---	---	0.716	1962
1963	---	---	0.267	4.83	3.22	1.27	0.348	0.224	0.151	0.058	---	---	1.29	1963
1964	---	---	---	1.08	2.61	0.275	0.105	0.097	0.043	0.095	---	---	---	1964
1965	---	---	0	4.30	9.31	4.57	1.89	2.64	1.78	1.24	---	---	3.19	1965
1966	---	---	0.010	8.81	11.3	6.87	3.30	0.898	0.398	1.12	---	---	4.29	1966
1967	---	---	0.170	0.897	11.5	2.99	0.519	0.170	0	0.004	---	---	2.06	1967
1968	---	---	0.683	1.62	1.63	1.71	2.40	1.93	0.812	0.271	---	---	1.39	1968
1969	---	---	0.198	5.29	2.19	2.19	0.845	0.555	0.333	2.17	---	---	1.72	1969
1970	---	---	0.213	8.27	15.3	2.21	2.58	0.727	0.693	3.11	---	---	3.90	1970
1971	---	---	0.272	15.7	4.27	3.20	1.69	1.03	0.195	0.828	---	---	3.38	1971
1972	---	---	0.288	9.30	8.18	2.10	1.44	0.272	0.084	0.185	---	---	2.84	1972
1973	---	---	0.394	1.38	1.74	7.10	4.85	0.828	1.15	1.12	---	---	2.26	1973
1974	---	---	0.335	13.9	16.1	5.09	0.440	0.424	0.898	1.36	---	---	4.79	1974
1975	---	---	0.317	8.50	12.4	7.68	1.08	0.336	1.71	2.63	---	---	4.28	1975
1976	---	---	0.355	15.7	3.15	21.4	2.46	0.496	0.257	0.193	---	---	5.42	1976
1977	---	---	0.183	4.06	1.54	0.845	1.20	1.86	4.38	2.70	---	---	2.03	1977
1978	---	---	0.287	8.22	4.28	0.913	0.458	0.035	0.205	1.23	---	---	1.84	1978
1979	---	---	0.177	11.4	22.1	6.44	0.638	0.224	0.141	0.298	---	---	5.20	1979
1980	---	---	0.177	4.54	0.888	---	---	---	---	---	---	---	---	1980
1981	---	---	0.140	1.38	1.74	1.85	0.733	0.284	0.013	0.740	---	---	0.853	1981
1982	---	---	0.022	2.84	1.98	0.752	4.85	1.18	0.181	0.598	---	---	1.55	1982
1983	---	---	0.183	8.89	9.99	4.46	6.22	0.689	0.228	0.543	---	---	3.62	1983
1984	---	---	0.246	5.12	9.58	7.88	1.45	0.170	0.175	1.51	---	---	3.25	1984
1985	---	---	0.421	16.3	4.74	3.44	1.72	4.67	1.70	3.33	---	---	4.53	1985
1986	---	---	2.22	13.2	9.84	2.84	2.45	2.37	0.884	2.03	---	---	4.41	1986
1987	---	---	1.89	8.29	1.86	1.71	3.55	1.58	0.872	2.84	---	---	2.74	1987
1988	---	---	0.818	22.8	29.4	2.88	0.618	0.278	0.118	0.235	---	---	7.11	1988
MEAN	---	---	0.370	7.38	7.26	3.98	1.80	0.827	0.672	1.16	---	---	3.05	MEAN

LOCATION - LAT 52 09 10 N DRAINAGE AREA, 638 km²
LONG 101 03 10 W NATURAL FLOW

ROARING RIVER NEAR MINITONAS - STATION NO. OSLE005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	23.1 AT 18:30 CST ON JUN 29	22.7 ON JUN 30	---	---	1959
1960	47.3 B AT 19:00 CST ON APR 11	39.4 ON APR 12	0 ON AUG 30 *	72 200	1960
1961	---	1.32B ON APR 23	0 ON JUL 28	3 780	1961
1962	---	17.1 B ON APR 20	0 B ON MAR 1	15 200	1962
1963	---	10.8 B ON APR 10	0 B ON MAR 1	27 200	1963
1964	---	8.08 ON MAY 10	---	---	1964
1965	---	25.7 ON MAY 2	0 B ON MAR 1	57 500	1965
1966	---	27.7 ON JUN 27	0 B ON MAR 1	90 800	1966
1967	---	22.1 B ON MAY 1	0 ON AUG 26	43 500	1967
1968	---	6.74 ON JUL 22	0 ON JUN 28	29 500	1968
1969	---	16.5 ON APR 16	0.054 ON SEP 21	36 400	1969
1970	---	36.0 ON MAY 3	0.020 ON JUL 20	82 800	1970
1971	---	47.3 ON APR 16	0.127 ON SEP 4	71 400	1971
1972	---	41.8 ON APR 21	0.034 ON SEP 26	80 200	1972
1973	---	30.9 ON JUN 21	0.0858 ON MAR 1	47 900	1973
1974	---	88.1 ON APR 20	0.227 ON AUG 7	101 000	1974
1975	---	27.7 ON APR 30	0.248 ON SEP 2	90 800	1975
1976	146 --- ON JUN 15	131 ON JUN 15	0.068 ON SEP 29	115 000	1976
1977	---	12.0 B ON APR 12	0.136B ON MAR 1	43 000	1977
1978	31.4 AT 22:15 CST ON APR 18	27.6 ON APR 18	0.007A ON AUG 22	41 100	1978
1979	---	51.8 A ON MAY 16	0.111A ON AUG 29	110 000	1979
1980	8.96 AT 03:00 CST ON APR 20	8.59 ON APR 19	---	---	1980
1981	4.71 AT 22:30 CST ON JUN 21	4.85 ON JUN 21	0 A ON SEP 2	18 100	1981
1982	---	25.7 A ON JUL 19	0.013B ON MAR 27	32 900	1982
1983	---	52.1 B ON APR 24	0.136 ON SEP 25	78 400	1983
1984	38.3 AT 11:26 CST ON JUN 24	35.6 ON JUN 24	0.070E ON SEP 1	68 900	1984
1985	41.7 AT 18:08 CST ON APR 12	36.8 ON APR 21	0.208B ON MAR 11	95 900	1985
1986	---	25.0 ON APR 11	0.184A ON SEP 10	83 400	1986
1987	---	23.6 B ON APR 5	0.203B ON MAR 2	57 900	1987
1988	175 AT 03:38 CST ON MAY 3 *	169 ON MAY 3 *	0.036 ON SEP 18	150 000	1988
				84 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROLLING RIVER NEAR DANVERS - STATION NO. OSMP007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.284	0.852	0.425	0.283	0.255	0.283	0.311	---	0.355	1915
MEAN	---	---	---	---	0.284	0.852	0.425	0.283	0.255	0.283	0.311	---	0.355	MEAN

LOCATION - LAT 50 33 20 N DRAINAGE AREA, 408 km²
LONG 99 54 10 W NATURAL FLOW

ROLLING RIVER NEAR DANVERS - STATION NO. 05MF007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	1.42 ON JUN 11 *	0 ON JUN 3 *	6 570	1915
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		6 570	MEAN

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	0.453	1.14	0.777	0.362	0.442	1.03	0.461	0.142	---	1915
1916	0.142	0.113	0.113	4.24	3.87	5.33	5.87	1.48	0.495	0.653	0.570	0.283	1.94	1916
1917	0.227	0.268	0.411	2.57	5.07	1.16	1.25	0.514	1.08	0.256	0.265	0.112	1.10	1917
1918	0.048	0.058	0.231	2.09	1.38	1.50	0.757	0.601	1.14	0.451	0.283	0.201	0.729	1918
1919	0.132	0.029	0.073	4.06	1.90	0.789	1.54	0.604	0.671	0.721	0.425	0.182	0.930	1919
1920	0.015	0.023	0.105	0.951	8.18	2.19	0.784	0.319	0.504	0.614	0.501	0.383	1.22	1920
1921	0.178	0.147	0.227	3.53	6.87	2.80	1.17	0.648	1.70	1.15	0.777	0.389	1.65	1921
1922	0.177	0.092	0.182	4.43	7.44	2.51	1.53	1.16	0.792	---	---	---	---	1922
1961	---	---	0.191	0.975	1.49	0.122	0.007	0	0.007	0.039	---	---	---	1961
1962	---	---	0.012	0.705	0.132	1.68	0.556	0.273	0.521	0.476	---	---	---	1962
1963	---	---	0.226	5.78	3.81	4.62	1.82	0.586	0.640	0.545	---	---	---	1963
1964	---	---	0.153	2.34	4.55	0.983	0.805	0.517	0.222	0.175	---	---	---	1964
1965	---	---	0.088	1.87	10.3	5.23	2.10	1.35	6.80	1.75	---	---	---	1965
1966	---	---	0.032	3.88	7.33	2.72	0.826	2.05	0.511	0.482	---	---	---	1966
1967	---	---	0.301	4.70	9.37	3.61	1.16	0.513	0.008	0.418	---	---	---	1967
1968	---	---	0.692	2.73	2.47	1.30	1.45	3.63	2.08	0.887	---	---	---	1968
1969	---	---	0.235	6.22	4.78	3.52	9.44	1.89	1.08	0.836	---	---	---	1969
1970	---	---	0.381	1.38	25.0	7.08	3.45	1.23	0.885	0.879	---	---	---	1970
1971	---	---	0.212	5.38	3.88	8.85	4.32	1.69	0.707	2.41	---	---	---	1971
1972	0.571	0.328	0.288	4.58	7.94	3.30	0.898	0.603	0.364	0.483	0.351	0.028	1.83	1972
1973	0	0	0.280	1.03	1.22	2.71	0.868	0.848	1.81	2.69	0.875	0.625	1.08	1973
1974	0.298	0.329	0.388	5.11	14.1	5.85	1.14	0.351	0.328	0.305	0.306	0.251	2.42	1974
1975	0.227	0.215	0.223	1.41	6.27	4.15	0.984	2.44	12.6	5.88	2.84	1.54	3.25	1975
1976	1.01	0.713	0.838	10.1	8.03	4.62	1.40	0.482	0.163	0.101	0.126	0.086	2.13	1976
1977	0.078	0.082	0.170	0.543	1.24	0.602	2.53	0.571	1.85	1.90	0.873	0.573	0.833	1977
1978	0.380	0.312	0.281	3.03	3.94	1.61	0.527	0.051	0.410	0.570	0.411	0.242	0.983	1978
1979	0.172	0.164	0.208	3.85	18.4	6.90	1.64	0.398	0.109	0.184	0.245	0.241	2.58	1979
1980	0.161	0.171	0.237	2.10	0.631	0.207	0.527	2.15	2.45	1.67	1.35	1.10	1.07	1980
1981	0.432	0.182	0.377	3.43	1.72	1.90	0.754	0.348	0.212	0.832	0.709	0.183	0.923	1981
1982	0.033	0.013	0.012	5.12	3.95	1.02	0.755	0.672	0.167	0.864	0.848	0.194	1.15	1982
1983	0.071	0.077	0.135	5.77	7.38	4.08	3.10	0.584	0.048	0.131	0.154	0.072	1.81	1983
1984	0.044	0.065	0.329	1.94	3.15	2.73	1.01	0.091	0.127	0.550	0.555	0.425	0.918	1984
1985	0.270	0.211	0.243	5.21	2.70	1.28	1.07	2.79	1.87	2.48	0.737	0.278	1.60	1985
1986	0.254	0.218	0.520	8.51	14.3	2.69	1.82	1.21	0.723	1.87	0.857	0.880	2.80	1986
1987	0.511	0.453	0.543	5.95	3.15	1.38	1.01	0.159	0.237	0.396	0.429	0.271	1.45	1987
1988	0.119	0.086	0.150	2.95	3.42	0.305	0.083	0.025	0.020	0.179	0.179	0.088	0.635	1988
MEAN	0.231	0.182	0.280	3.75	5.72	2.86	1.66	0.821	1.22	0.990	0.832	0.356	1.52	MEAN

LOCATION - LAT 50 31 12 N DRAINAGE AREA, 760 km^2
LONG 99 56 27 W NATURAL FLOW

ROLLING RIVER NEAR ERICKSON - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	17.4 ON JUN 30	0.1138 ON FEB 1	81 400	1916
1917	---	10.7 ON APR 30	0.0578 ON DEC 27	34 800	1917
1918	---	5.38 ON APR 21	0.0288 ON JAN 9	23 000	1918
1919	---	9.00 ON APR 11	0 B ON FEB 17 *	28 300	1919
1920	---	16.5 ON MAY 12	0 B ON JAN 15	38 800	1920
1921	---	12.9 ON MAY 25	0.1138 ON JAN 16	51 900	1921
1922	---	12.1 ON MAY 17	---	---	1922
1961	---	2.48 ON MAY 10	0 ON JUL 13	---	1961
1962	---	3.28 ON JUN 3	0 ON MAY 9	---	1962
1963	---	8.61 ON APR 21	0 B ON MAR 1	---	1963
1964	---	8.16 ON MAY 6	0.119 ON SEP 28	---	1964
1965	---	23.2 ON MAY 4	0.0658 ON MAR 1	---	1965
1966	---	14.2 ON MAY 10	0 B ON MAR 1	---	1966
1967	---	11.6 ON MAY 12	0 ON SEP 25	---	1967
1968	---	6.68 ON AUG 5	0.1428 ON MAR 1	---	1968
1969	---	27.2 ON JUL 1	0.1428 ON MAR 1	---	1969
1970	---	60.3 ON MAY 11 *	0.348 ON SEP 11	---	1970
1971	---	16.7 ON JUN 12	0.2128 ON MAR 1	---	1971
1972	13.1 AT 18:09 CST ON APR 30	13.0 ON APR 30	0 B ON DEC 17	51 500	1972
1973	6.48 AT 18:23 CST ON JUN 24	6.43 ON JUN 24	0 B ON JAN 1	34 100	1973
1974	21.9 AT 21:05 CST ON MAY 14	21.1 ON APR 30	0.193 ON AUG 27	76 100	1974
1975	52.1 AT 17:40 CST ON SEP 21 *	47.8 ON SEP 22	0.1938 ON APR 3	102 000	1975
1976	19.8 AT 21:28 CST ON APR 17	19.5 ON APR 17	0.037 ON OCT 5	67 200	1976
1977	8.98 AT 03:15 CST ON JUL 17	8.86 ON JUL 17	0.0718 ON JAN 17	28 400	1977
1978	8.52 AT 23:59 CST ON APR 30	8.44 ON MAY 1	0.003 ON SEP 12	30 900	1978
1979	31.6 AT 07:08 CST ON MAY 20	31.6 ON MAY 20	0.046 ON OCT 1	80 700	1979
1980	5.06 AT 04:25 CST ON AUG 27	4.96 ON AUG 27	0.108 ON AUG 3	33 700	1980
1981	7.298 AT 19:58 CST ON APR 6	6.848 ON APR 6	0.004 ON SEP 21	29 100	1981
1982	12.7 B AT 22:38 CST ON APR 19	12.3 ON APR 22	0.0018 ON FEB 16	36 300	1982
1983	27.1 AT 11:45 CST ON APR 27	26.7 ON APR 27	0.033 ON SEP 22	57 000	1983
1984	8.28 AT 00:28 CST ON JUN 28	8.04 ON JUN 28	0.0298 ON JAN 25	29 000	1984
1985	10.7 AT 18:08 CST ON APR 19	10.7 ON APR 19	0.112 ON AUG 3	50 400	1985
1986	38.3 AT 18:45 CST ON MAY 8	37.5 ON MAY 8	0.1988 ON MAR 19	88 400	1986
1987	21.4 B AT 12:06 CST ON APR 12	21.3 B ON APR 12	0.093 ON AUG 25	45 800	1987
1988	10.9 B AT 06:18 CST ON APR 8	10.5 B ON APR 8	0.004 ON SEP 26	20 100	1988
				47 900	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT DOMINION CITY - STATION NO. 05OD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	5.80	---	1912
MEAN	---	---	---	---	---	5.67	1.70	3.21	5.26	30.0	22.5	5.80	---	MEAN

LOCATION - LAT 49 08 50 N LONG 97 09 00 W DRAINAGE AREA, 5 820 km^2 NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	22.0	19.3	23.8	4.87	0.878	1.47	1.70	0.850	---	1915
1916	0.227	0.170	0.255	41.2	58.7	19.8	5.82	2.77	2.37	2.58	2.43	0.113	18.7	1916
1917	0.381	0.312	0.505	12.4	16.2	2.75	2.56	1.24	0.468	0.889	1.68	0.810	4.67	1917
1918	0.045	0	---	---	4.10	8.58	2.80	1.41	0.872	1.56	3.34	1.42	---	1918
1919	0.821	0.388	0.738	---	8.86	9.80	44.5	15.8	2.41	1.99	1.72	0.926	---	1919
1920	0.336	0.371	---	24.1	10.8	11.2	1.00	0.124	0.403	1.21	0.883	0.201	---	1920
1921	0.127	0.227	---	21.0	8.23	4.87	1.17	0.982	1.60	1.89	0.631	0.510	---	1921
1922	0.173	0.085	---	16.8	24.0	13.8	3.03	1.39	4.84	---	4.13	1.07	---	1922
1962	0.204	0.232	---	17.8	40.6	58.8	30.8	23.5	8.88	0.294	3.67	2.30	---	1962
1963	0.289	0.235	2.10	36.2	20.2	23.3	8.09	1.48	0.251	0.899	0.767	0.187	11.4	1963
1964	0.034	0.024	0	16.7	21.8	20.3	23.3	2.39	2.89	16.1	8.81	1.06	13.2	1964
1965	0.082	0.037	0	37.1	70.1	42.2	23.5	2.58	5.51	17.6	15.7	7.70	24.8	1965
1966	3.11	1.78	3.54	70.6	79.1	43.4	16.0	4.57	3.70	1.42	1.31	1.55	28.4	1966
1967	0.348	0.136	0.861	55.4	58.3	21.4	3.16	0.240	0.011	0.021	0.275	0.513	16.3	1967
1968	0.204	0.061	0.726	19.7	5.81	32.8	48.8	46.3	44.9	17.8	11.8	2.94	27.0	1968
1969	0.799	0.631	0.898	46.8	62.0	20.3	4.02	3.82	1.71	3.78	2.84	1.71	17.9	1969
1970	1.20	0.682	0.488	23.9	88.5	78.6	37.9	1.59	3.39	2.24	7.16	1.43	28.5	1970
1971	0.147	0.149	0.436	34.8	26.5	8.84	3.88	1.24	0.867	3.45	8.58	1.85	8.90	1971
1972	0.607	0.315	1.71	24.0	32.8	9.82	1.84	0.816	0.435	1.13	1.06	0.202	8.00	1972
1973	0.176	0.167	6.23	2.70	3.34	2.10	0.800	2.17	4.58	15.9	5.31	1.31	4.74	1973
1974	0.439	0.385	0.432	25.4	80.0	56.8	5.38	13.5	13.1	3.91	2.97	1.03	24.7	1974
1975	0.808	0.711	0.817	15.8	65.5	33.1	38.9	3.82	0.884	0.569	0.848	0.413	18.7	1975
1976	---	---	0.425	28.7	7.57	3.78	2.64	0.357	0.177	0.453	---	---	5.45	1976
1977	---	---	0.407	4.75	1.70	1.90	1.70	0.347	1.05	5.00	---	---	2.10	1977
1978	---	---	0.261	30.0	43.2	5.84	11.1	5.40	4.43	1.74	---	---	12.7	1978
1979	---	---	0.378	19.5	74.6	34.8	3.16	0.453	0.237	0.162	---	---	16.7	1979
1980	---	---	0.258	18.0	2.66	0.240	0.028	0.029	0.146	0.856	---	---	2.72	1980
1981	---	---	2.68	1.67	1.55	9.43	8.34	2.00	3.82	10.5	---	---	4.89	1981
1982	---	---	0.870	28.3	36.2	8.78	8.39	3.88	1.26	17.4	---	---	13.2	1982
1983	---	---	27.0	37.8	22.1	18.4	14.3	0.880	1.49	3.00	---	---	15.6	1983
1984	---	---	2.18	23.2	7.60	18.4	9.12	1.05	0.114	2.42	---	---	8.06	1984
1985	---	---	2.53	25.8	21.5	24.0	32.7	25.9	35.8	21.2	---	---	23.8	1985
1986	---	---	5.87	55.1	72.1	25.6	4.83	0.987	0.450	1.29	---	---	21.9	1986
1987	---	---	4.86	43.0	9.82	6.22	1.84	0.465	0.108	0.183	---	---	6.21	1987
1988	---	---	0.129	9.97	1.01	0.477	1.75	0.129	0.010	0.065	---	---	1.87	1988
MEAN	0.494	0.336	2.52	27.5	32.0	20.0	12.2	5.08	4.39	4.74	4.06	1.35	14.2	MEAN

LOCATION - LAT 49 05 15 N
LONG 96 41 15 W

DRAINAGE AREA, 4 470 km²
NATURAL FLOW

ROSEAU RIVER AT GARDENTON - STATION NO. 05OD004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	89.8 ON APR 30	0.057 ON AUG 2	355 000	1916
1917	---	26.8 ON APR 28	0.113 ON SEP 19	88 800	1917
1918	---	---	---	---	1918
1919	---	66.3 ON JUL 21	---	---	1919
1920	---	50.1 ON APR 18	0 ON AUG 21 *	---	1920
1921	---	48.4 ON APR 18	---	---	1921
1922	---	35.7 ON MAY 29	---	---	1922
1962	---	71.8 ON JUN 15	0 ON OCT 16	---	1962
1963	---	43.3 ON APR 28	0 B ON MAR 1	242 000	1963
1964	---	27.7 ON JUL 4	0 B ON MAR 1	279 000	1964
1965	---	85.8 ON MAY 8	0 B ON MAR 1	524 000	1965
1966	---	101 ON MAY 4	1.13 ON OCT 12	802 000	1966
1967	---	79.0 ON APR 21	0 B ON MAR 1	387 000	1967
1968	---	57.6 ON JUN 30	0.1428 ON MAR 1	571 000	1968
1969	---	83.6A ON APR 29	0.9038 ON MAR 1	376 000	1969
1970	103 AT 15:00 CST ON MAY 16 *	102 ON MAY 16 *	0.2838 ON APR 12	625 000	1970
1971	53.5 AT 00:38 CST ON APR 21	53.2 ON APR 21	0.3268 ON MAR 11	209 000	1971
1972	---	47.6 ON MAY 1	0.282E ON SEP 1	191 000	1972
1973	---	21.2 ON OCT 2	0.2558 ON MAR 1	100 000	1973
1974	96.3 AT 13:00 CST ON MAY 21	95.1 ON MAY 21	0.4088 ON MAR 17	523 000	1974
1975	72.6 AT 00:33 CST ON MAY 10	72.5 ON MAY 9	0.422 ON OCT 2	418 000	1975
1976	44.78 AT 21:21 CST ON APR 8	40.2 ON APR 7	0.093 ON SEP 26	115 000	1976
1977	14.88 AT 18:22 CST ON APR 10	10.58 ON APR 10	0.1428 ON MAR 1	44 500	1977
1978	63.1 AT 16:06 CST ON APR 27	62.6 ON APR 27	0.2328 ON MAR 1	299 000	1978
1979	90.6 AT 11:43 CST ON MAY 12	89.0 ON MAY 12	0.003 ON OCT 1	353 000	1979
1980	43.0 AT 03:33 CST ON APR 14	39.5B ON APR 14	0 ON JUL 10	57 400	1980
1981	19.0 AT 11:10 CST ON JUL 4	18.9 ON JUL 4	0.482 ON SEP 5	108 000	1981
1982	---	47.2A ON MAY 4	0.288B ON MAR 26	280 000	1982
1983	58.8 AT 14:38 CST ON APR 8	51.9 ON APR 8	0.307 ON AUG 27	330 000	1983
1984	47.4 AT 16:52 CST ON APR 4	39.3 ON APR 4	0.040 ON OCT 10	171 000	1984
1985	41.8 AT 00:24 CST ON APR 4	40.7 ON JUL 18	0.1098 ON MAR 15	500 000	1985
1986	79.7 AT 04:51 CST ON MAY 2	78.8 ON MAY 2	0.241 ON AUG 24	464 000	1986
1987	63.0 AT 22:59 CST ON APR 7	59.4 ON APR 8	0.050 ON SEP 17	173 000	1987
1988	30.5 AT 11:26 CST ON APR 9	28.0 ON APR 9	0.001 ON SEP 5	35 300	1988
				300 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1924	---	---	---	---	21.2	5.85	2.27	6.13	2.03	6.53	---	---	---	1924
1925	---	---	---	27.7	14.2	42.0	45.8	3.36	4.14	6.31	---	---	---	1925
1926	---	---	---	15.8	8.27	17.3	33.6	4.69	7.54	18.0	---	---	---	1926
1927	---	---	---	62.3	78.0	65.8	14.1	1.43	2.87	3.74	4.26	---	---	1927
1928	---	---	---	9.90	8.27	20.1	45.7	17.6	6.03	3.77	---	---	---	1928
1929	---	---	---	15.8	5.26	5.26	2.12	0.220	0.278	---	---	---	---	1929
1930	---	---	---	---	19.8	5.26	10.9	0.524	0.185	---	---	---	---	1930
1934	---	---	---	5.92	1.86	1.37	0.472	0.051	0.047	0.838	---	---	---	1934
1935	---	---	---	15.2	8.44	2.80	3.28	1.28	1.28	0.726	---	---	---	1935
1936	---	---	---	12.8	17.3	2.69	0.294	0.004	0.521	---	---	---	---	1936
1962	---	---	0	13.3	42.7	80.5	27.3	24.8	10.4	1.86	---	---	22.5	1962
1963	---	---	2.09	36.5	23.4	24.8	8.42	1.52	0.260	0.899	---	---	12.1	1963
1964	---	---	0	18.2	26.0	22.2	24.3	2.50	2.84	23.1	---	---	14.9	1964
1965	---	---	0	37.4	71.3	42.6	24.4	3.88	7.43	22.6	---	---	26.2	1965
1966	---	---	10.5	75.5	87.9	46.6	18.7	5.31	4.62	1.97	---	---	31.0	1966
1967	---	---	0.711	58.3	58.3	23.3	3.70	0.563	0.034	0.049	---	---	18.3	1967
1968	---	---	0.736	20.7	5.36	32.6	50.6	48.7	47.4	20.6	---	---	28.3	1968
1969	---	---	0.956	45.8	63.7	20.6	3.97	4.05	1.80	4.44	---	---	18.2	1969
MEAN	---	---	1.88	29.4	31.6	24.0	17.7	7.03	5.53	7.76	4.26	---	21.6	MEAN

LOCATION - LAT 49 07 57 N LONG 96 46 08 W
DRAINAGE AREA, 4 500 km²
NATURAL FLOW

ROSEAU RIVER AT STUARTBURN - STATION NO. 05OD014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1924	---	---	---	---	1924
1925	---	85.4 ON JUL 3	---	---	1925
1926	---	47.3 ON JUL 9	---	---	1926
1927	---	114 ON MAY 24	---	---	1927
1928	---	51.3 ON JUL 6	---	---	1928
1929	---	28.9R ON APR 11	---	---	1929
1930	---	---	---	---	1930
1934	---	---	0 ON SEP 17 *	---	1934
1935	---	---	0.388 ON AUG 11	---	1935
1936	---	---	0 ON AUG 6	---	1936
1962	---	75.0 ON JUN 18	0 B ON MAR 1	477 000	1962
1963	---	47.9 ON APR 28	0 B ON MAR 1	257 000	1963
1964	---	38.6 ON JUN 24	0 B ON MAR 1	315 000	1964
1965	---	84.0 ON MAY 6	0 B ON MAR 1	554 000	1965
1966	---	118 ON MAY 4 *	0.886 ON SEP 30	656 000	1966
1967	---	84.4 ON APR 21	0 B ON MAR 1	406 000	1967
1968	---	63.1 ON JUL 2	0.1428 ON MAR 1	599 000	1968
1969	---	83.6 ON MAY 1	0.9038 ON MAR 1	365 000	1969
				456 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	18.4	19.8	19.8	9.71	2.62	4.66	8.16	7.93	1.84	---	1914
1915	0.283	0.227	0.426	10.2	21.7	19.9	27.4	5.32	0.732	1.60	2.56	1.27	7.68	1915
MEAN	0.283	0.227	0.426	14.3	20.8	19.9	18.6	3.92	2.65	4.84	5.24	1.56	7.68	MEAN

LOCATION - LAT 49 08 55 N LONG 97 10 00 W
DRAINAGE AREA, 5 630 km²
NATURAL FLOW

ROSEAU RIVER BELOW RAILWAY BRIDGE, DOMINION CITY - STATION NO. 05OD003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1914	---	---	---	---	1914
1915	---	36.2 ON JUL 11 *	0.2278 ON FEB 1 *	242 000	1915
				242 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05DD003O

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	20.4	13.0	1.71	1.81	0.485	0.501	---	---	---	---	1917
1920	---	---	---	17.5	10.8	11.8	1.30	0.481	0.851	0.917	0.906	0.507	---	1920
1921	0.340	0.311	0.283	27.4	8.20	3.38	0.815	0.795	1.86	1.48	0.993	0.586	3.85	1921
1922	0.510	0.425	0.586	14.1	25.7	11.4	2.86	1.33	4.80	1.86	4.09	1.88	5.86	1922
1923	1.42	0.850	1.02	20.1	53.0	3.08	2.92	1.06	0.865	1.27	1.14	0.934	7.37	1923
1924	0.850	1.67	2.94	14.8	19.5	8.26	2.15	5.52	1.76	6.17	4.03	1.20	5.61	1924
1925	1.19	1.28	8.46	27.3	13.3	42.7	43.1	2.11	3.67	5.88	7.62	2.43	13.1	1925
1926	1.59	1.06	4.10	12.2	4.71	20.6	33.5	2.46	4.91	13.2	10.6	6.41	9.73	1926
1927	3.79	2.13	5.55	57.6	71.6	46.8	10.1	1.16	1.25	2.58	4.25	1.58	17.6	1927
1928	1.13	0.855	3.21	11.7	4.91	19.6	42.9	10.9	3.56	1.85	1.98	1.03	8.70	1928
1929	0.583	0.473	8.30	15.7	5.83	5.32	1.93	0.445	0.477	0.778	0.985	0.353	3.25	1929
1930	0.283	0.227	0.425	16.0	28.3	7.03	13.3	6.768	0.310	0.783	2.20	---	---	1930
1931	---	---	---	13.2	6.03	2.89	1.30	0.474	0.483	0.888	2.54	---	---	1931
1932	---	---	---	29.8	17.7	2.63	2.36	0.486	1.17	2.20	4.67	1.80	---	1932
1933	0.845	0.483	0.707	25.3	12.4	7.85	0.285	0.112	0.190	0.254	0.302	---	---	1933
1934	---	---	---	4.68	1.73	1.38	0.562	0.123	0.170	0.838	---	---	---	1934
1935	---	---	---	13.7	7.71	2.55	3.04	1.52	1.23	0.785	---	---	---	1935
1936	---	---	---	11.8	15.6	2.25	0.251	0.059	0.433	0.281	0.253	0.148	---	1936
1937	0.170	0.170	0.283	12.2	31.2	8.20	6.41	23.6	2.15	1.02	0.847	0.349	7.55	1937
1938	---	---	5.31	9.48	35.5	23.2	1.54	0.287	0.160	0.229	---	---	---	1938
1939	---	---	---	3.07	2.30	2.73	0.702	0.180	0.301	0.417	---	---	---	1939
1940	---	---	---	6.76	4.88	1.58	0.319	0.712	0.811	0.742	3.85	1.27	---	1940
1941	0.826	0.574	0.426	27.8	22.1	18.7	4.09	0.202	9.07	26.9	8.22	1.02	10.6	1941
1942	0.303	0.389	5.35	48.8	42.8	13.6	0.971	4.59	18.9	3.69	1.24	0.507	11.8	1942
1943	0.386	0.366	0.481	32.6	31.0	31.9	25.4	2.42	1.78	---	---	---	---	1943
1944	---	---	---	13.8	8.76	26.8	19.8	8.01	8.81	---	---	---	---	1944
1945	---	---	---	46.0	32.2	6.88	7.72	4.85	18.9	11.5	3.31	---	---	1945
1946	---	---	12.8	38.6	17.9	2.38	3.13	0.498	0.545	0.884	0.886	---	---	1946
1947	---	---	---	12.1	12.4	32.3	21.7	8.16	3.32	8.86	---	---	---	1947
1948	---	---	---	27.8	58.0	8.89	7.76	12.2	0.843	0.851	---	---	---	1948
1949	---	---	0.849	28.1	20.7	5.05	2.10	2.53	0.526	---	---	---	---	1949
1950	---	---	---	9.85	85.8	69.0	36.9	8.82	18.2	22.4	---	---	---	1950
1951	---	---	---	41.0	51.8	7.33	1.18	1.72	4.21	3.82	---	---	---	1951
1952	---	---	---	15.8	3.61	2.34	7.44	1.66	0.808	0.404	---	---	---	1952
1953	---	---	---	8.01	8.28	12.2	3.88	0.626	1.46	1.82	---	---	---	1953
1954	---	---	---	17.3	27.7	19.8	2.10	0.480	0.808	0.488	---	---	---	1954
1955	---	---	---	21.3	15.6	24.6	5.32	0.884	0.740	2.88	---	---	---	1955
1956	---	---	---	22.4	55.1	24.4	28.2	7.37	21.4	2.52	---	---	---	1956
1957	---	---	---	28.3	27.5	23.3	45.5	11.0	28.9	15.1	10.6	---	---	1957
1958	---	---	---	4.88	2.46	1.79	18.5	2.06	0.387	1.23	---	---	---	1958
1959	---	---	---	33.2	25.7	14.9	5.04	1.46	1.89	5.67	---	---	---	1959
1960	---	---	---	26.6	24.1	11.9	4.78	0.880	0.393	---	---	---	---	1960
1961	---	---	---	9.03	7.00	0.856	0.174	0.090	1.12	1.62	---	---	---	1961
1962	---	---	---	15.1	35.7	53.3	25.5	26.6	10.8	---	---	---	---	1962
1963	---	---	---	34.6	20.8	23.8	8.63	1.58	0.355	0.783	---	---	---	1963
1964	---	---	---	16.6	22.9	23.0	22.6	2.80	4.86	18.7	---	---	---	1964
1965	---	---	---	34.7	65.7	39.5	23.5	3.67	7.84	19.2	---	---	---	1965
1966	---	---	---	61.4	73.5	37.7	14.5	4.27	3.10	1.78	2.14	---	---	1966
1967	---	---	---	47.0	63.3	20.4	3.15	0.488	0.049	0.054	0.104	---	---	1967
1968	---	---	---	16.8	4.41	32.6	46.6	44.7	41.1	16.9	---	---	---	1968
1969	---	---	---	40.2	55.7	17.7	3.61	3.80	2.01	4.24	---	---	---	1969
1970	---	---	---	23.9	78.4	73.3	34.2	1.26	3.04	2.26	---	---	---	1970
1971	---	---	---	33.1	23.7	7.87	3.78	1.24	0.750	3.34	---	---	---	1971
1972	---	---	---	22.6	31.8	9.62	1.51	0.489	0.596	0.892	1.30	0.448	---	1972
1973	0.278	0.248	5.67	2.76	3.07	2.24	0.871	2.34	5.31	14.2	4.03	1.14	3.84	1973
1974	0.441	0.380	0.394	23.6	73.6	55.6	4.97	14.8	12.9	3.56	3.07	1.27	16.3	1974
1975	0.820	0.711	0.521	16.9	66.0	31.4	34.8	2.89	0.838	0.556	0.918	0.578	13.2	1975
1976	0.497	0.464	0.536	28.2	6.40	3.64	2.57	0.277	0.163	0.289	0.394	0.181	3.81	1976
1977	0.107	0.122	0.385	4.44	1.41	1.61	1.60	0.301	1.30	4.43	5.70	3.47	2.08	1977
1978	1.22	0.398	0.195	30.9	42.7	5.25	11.4	5.63	4.77	1.88	1.00	0.672	8.86	1978
1979	0.489	0.348	0.534	19.7	74.8	31.7	3.33	0.479	0.247	0.104	0.624	0.458	11.1	1979
1980	0.431	0.387	0.398	17.2	2.24	0.190	0.018	0.077	0.169	0.704	1.14	0.325	1.92	1980
1981	0.112	0.530	2.09	1.08	1.53	10.2	8.75	1.86	3.68	11.4	5.16	2.80	4.17	1981
1982	0.418	0.385	0.590	23.2	34.6	7.99	8.09	3.63	1.08	16.7	7.17	2.34	8.91	1982
1983	0.882	0.730	12.5	33.5	20.2	16.9	13.4	0.858	1.45	3.08	3.06	1.52	9.02	1983
1984	0.398	0.442	2.83	22.9	7.38	17.6	7.84	0.627	0.053	2.46	2.73	0.682	5.47	1984
1985	0.261	0.171	3.42	25.7	21.9	23.6	33.2	24.7	35.4	20.6	7.32	1.81	16.6	1985
1986	0.791	0.755	4.37	58.3	61.0	22.2	3.88	0.782	0.516	1.36	1.11	0.810	13.0	1986
1987	0.813	0.491	4.87	38.4	8.74	5.76	1.21	0.401	0.055	0.137	0.192	---	---	1987
1988	0.082	0.028	0.218	10.4	0.762	0.411	1.80	0.177	0.031	0.108	0.178	0.708	1.23	1988
MEAN	0.716	0.575	2.94	23.0	26.8	15.6	10.7	4.08	4.42	4.91	3.05	1.28	8.30	MEAN

LOCATION - LAT 46 56 54 N DRAINAGE AREA, 4 150 km² INTERNATIONAL GAUGING STATION
LONG 68 27 45 W NATURAL FLOW

REMARKS - PUBLISHED AS "AT CARIBOU" PRIOR TO APR 1928 AND AS "BELOW CUTOFF DITCH NEAR CARIBOU" FROM APR 1929-SEP 1935

ROSEAU RIVER NEAR CARIBOU - STATION NO. 05OD030

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1917	41.6 ON APR 17	38.6 ON APR 17	---	---	1917
1920	48.7 B ON APR 15	45.3 B ON APR 15	---	---	1920
1921	---	58.1 ON APR 11	0.2838 ON MAR 1	122 000	1921
1922	---	38.8 ON MAY 25	0.4268 ON FEB 1	185 000	1922
1923	---	84.4 ON MAY 1	0.623 ON SEP 2	232 000	1923
1924	---	34.6 ON APR 29	0.4538 ON DEC 18	174 000	1924
1925	---	80.5 ON JUL 1	0.7938 ON JAN 1	413 000	1925
1926	---	53.6 ON JUL 8	0.6788 ON MAR 13	307 000	1926
1927	89.8 ON MAY 24	89.5 ON MAY 24	0.783 ON AUG 26	548 000	1927
1928	---	47.3 ON JUL 8	0.7368 ON DEC 8	275 000	1928
1929	---	27.6 ON APR 10	0.311 ON AUG 30	102 000	1929
1930	---	39.1 ON MAY 20	---	---	1930
1931	32.3 ON APR 9	31.1 ON APR 9	---	---	1931
1932	---	48.4 ON APR 16	---	---	1932
1933	---	38.2 B ON APR 17	---	---	1933
1934	12.0 B AT 13:00 CST ON APR 13	10.7 B ON APR 13	---	---	1934
1935	28.1 B AT 10:00 CST ON APR 13	22.7 B ON APR 18	---	---	1935
1936	---	28.8 ON APR 27	---	---	1936
1937	---	38.5 ON MAY 11	0.1708 ON JAN 1	238 000	1937
1938	---	49.6 ON MAY 25	---	---	1938
1939	9.638 AT 05:00 CST ON APR 20	7.368 ON APR 20	---	---	1939
1940	23.6 B ON APR 22	22.7 B ON APR 22	---	---	1940
1941	---	47.0 ON APR 24	0.142 ON AUG 12	342 000	1941
1942	---	58.6 ON APR 13	0.1868 ON JAN 15	374 000	1942
1943	---	48.1 ON APR 21	---	---	1943
1944	---	36.0 ON JUN 27	---	---	1944
1945	---	49.8 ON APR 12	---	---	1945
1946	44.2 AT 15:30 CST ON APR 14	43.0 ON APR 5	---	---	1946
1947	---	50.4 ON JUN 28	---	---	1947
1948	---	89.7 ON MAY 2	---	---	1948
1949	---	41.9 ON APR 24	---	---	1949
1950	118 AT 20:30 CST ON MAY 18 *	114 ON MAY 19 *	---	---	1950
1951	82.3 AT 16:00 CST ON MAY 2	82.0 ON MAY 3	---	---	1951
1952	---	30.3 ON APR 12	---	---	1952
1953	22.6 AT 08:00 CST ON JUN 5	22.5 ON JUN 5	---	---	1953
1954	---	32.8 ON MAY 8	---	---	1954
1955	---	30.6 ON JUN 13	---	---	1955
1956	---	85.1 ON MAY 2	---	---	1956
1957	50.7 AT 11:00 CST ON JUL 12	50.4 ON JUL 18	---	---	1957
1958	24.8 AT 12:00 CST ON JUL 20	24.7 ON JUL 20	---	---	1958
1959	---	44.5 ON APR 20	---	---	1959
1960	48.7 AT 20:00 CST ON APR 27	45.4 ON APR 28	---	---	1960
1961	17.3 B UN MAR 29	17.0 B ON MAR 30	---	---	1961
1962	58.6 AT 03:30 CST ON JUN 11	58.3 ON JUN 11	---	---	1962
1963	---	42.6 ON APR 25	---	---	1963
1964	---	40.5 ON JUL 1	---	---	1964
1965	78.2 AT 10:15 CST ON MAY 6	75.9 ON MAY 6	---	---	1965
1966	68.3 AT 21:00 CST ON APR 28	68.1 ON APR 28	---	---	1966
1967	68.2 AT 02:00 CST ON MAY 12	68.0 ON MAY 11	---	---	1967
1968	---	52.7 ON JUL 2	---	---	1968
1969	70.2 AT 15:00 CST ON APR 28	69.9 ON APR 28	---	---	1969
1970	83.3 AT 15:00 CST ON MAY 15	83.0 ON MAY 15	---	---	1970
1971	49.3 AT 19:00 CST ON APR 21	49.0 ON APR 20	---	---	1971
1972	47.8 AT 02:00 CST ON MAY 2	47.4 ON APR 30	---	---	1972
1973	---	20.5 ON OCT 1	0.2278 ON FEB 11	115 000	1973
1974	77.0 ON MAY 14	76.5 ON MAY 28	0.3688 ON FEB 13	513 000	1974
1975	---	71.9 ON MAY 8	0.311 ON OCT 11	418 000	1975
1976	37.7 AT 00:30 CST ON APR 8	37.4 ON APR 8	0.081 ON SEP 29	114 000	1976
1977	10.8 B ON APR 10	10.3 B ON APR 10	0.0888 ON JAN 17	65 500	1977
1978	84.0 AT 12:30 CST ON APR 26	82.9 ON APR 27	0.1848 ON MAR 14	278 000	1978
1979	84.4 ON MAY 8	84.1 ON MAY 8	0.057 ON OCT 15	351 000	1979
1980	29.7 AT 15:00 CST ON APR 14	29.7 ON APR 14	0.001 ON AUG 3 *	80 800	1980
1981	21.0 AT 13:00 CST ON JUL 4	20.9 ON JUL 4	0.0988 ON JAN 11	131 000	1981
1982	47.1 AT 18:30 CST ON MAY 1	47.0 ON APR 30	0.3408 ON JAN 18	281 000	1982
1983	39.6 B ON APR 8	39.4 B ON APR 8	0.221 ON AUG 27	285 000	1983
1984	34.5 B AT 05:00 CST ON APR 3	34.0 B ON APR 3	0.008 ON OCT 4	173 000	1984
1985	47.2 ON JUL 18	42.2 ON JUL 17	0.1478 ON FEB 25	523 000	1985
1986	87.1 ON MAY 13	86.6 ON APR 16	0.228 ON AUG 21	410 000	1986
1987	48.2 ON APR 12	---	---	---	1987
1988	28.3 B AT 15:00 CST ON APR 8	27.6 B ON APR 8	0.011 ON SEP 20	36 800	1988
				282 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEAU RIVER NEAR DOMINION CITY - STATION NO. 05OD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	0.568	0	0	32.9	19.1	8.42	4.81	1.83	1.60	2.35	2.42	1.13	8.10	1913
1914	0.170	0.142	0.708	16.1	17.7	17.0	8.44	2.12	---	---	---	---	---	1914
1915	---	---	---	---	---	---	5.32	2.88	2.78	2.72	2.31	0.386	---	1915
1917	0.500	0.333	0.635	13.1	15.0	2.46	2.13	0.840	0.517	0.642	2.53	0.713	3.29	1917
1918	0.080	0	0.763	4.82	3.75	6.13	3.41	1.34	0.805	1.45	4.02	1.87	2.36	1918
1919	0.854	0.526	0.670	19.0	9.69	9.59	46.0	19.8	3.46	2.84	1.98	1.21	9.75	1919
1920	0.532	0.528	1.62	31.1	12.2	13.0	1.61	0.372	0.480	1.25	0.847	0.311	5.28	1920
1921	0.227	0.340	0.851	24.1	10.8	4.84	1.21	1.02	1.75	1.95	0.801	0.714	4.03	1921
1922	0.298	0.142	0.462	16.9	23.7	15.2	2.95	1.56	4.85	2.18	4.32	1.38	6.17	1922
1923	0.868	0.884	0.432	18.4	58.3	5.78	4.24	1.48	1.20	2.01	2.08	0.854	8.12	1923
1924	0.080	0.030	0.113	18.6	23.4	6.18	2.39	5.44	2.11	6.84	2.71	0.730	5.72	1924
1925	0.240	0.259	3.88	27.8	15.1	48.4	44.7	4.38	5.21	7.08	4.12	1.20	13.6	1925
1926	0.484	0.282	2.55	15.8	5.14	17.0	33.8	5.04	10.4	23.8	8.66	2.87	10.7	1926
1927	2.00	1.40	7.28	64.2	87.4	56.4	15.0	2.38	2.86	4.23	---	---	---	1927
1928	---	---	---	7.92	7.12	17.2	41.8	15.8	4.89	3.63	---	---	---	1928
1929	---	---	---	17.8	5.83	5.74	2.03	0.463	0.390	0.861	---	---	---	1929
1930	---	---	---	17.6	29.5	8.08	13.9	0.861	0.216	0.838	---	---	---	1930
1931	---	---	---	13.4	8.42	3.56	1.41	0.538	0.601	1.00	3.14	---	---	1931
1932	---	---	---	32.8	22.4	3.58	3.27	0.383	1.28	2.31	---	---	---	1932
1933	---	---	---	27.8	15.4	11.8	0.416	0.047	0.121	0.267	---	---	---	1933
1934	---	---	---	5.48	1.88	1.13	0.553	0.026	0.026	0.868	---	---	---	1934
1935	---	---	---	15.2	8.93	2.80	3.05	1.41	1.39	0.817	---	---	---	1935
1936	---	---	---	11.0	17.8	2.93	0.259	0.001	0.283	0.198	---	---	---	1936
1937	---	---	---	13.2	36.2	10.7	7.25	26.7	3.13	1.38	---	---	---	1937
1938	---	---	---	10.1	33.6	27.7	2.10	0.442	0.161	0.235	---	---	---	1938
1939	---	---	---	3.81	3.04	2.94	0.918	0.031	0.169	0.484	0.389	---	---	1939
1940	---	---	---	8.08	5.50	1.41	0.248	0.383	0.883	0.714	---	---	---	1940
1941	---	---	---	28.1	25.1	18.0	5.41	0.282	7.88	41.8	---	---	---	1941
1942	---	---	---	55.5	44.7	17.6	1.16	3.83	18.6	4.88	---	---	---	1942
1943	---	---	---	34.8	34.6	33.8	28.3	2.84	1.57	0.780	---	---	---	1943
1944	---	---	---	14.8	9.25	28.4	23.0	10.4	17.2	3.51	17.6	---	---	1944
1945	---	---	---	54.1	40.5	8.19	5.97	4.21	18.5	13.7	---	---	---	1945
1946	---	---	14.4	44.2	18.3	3.01	3.15	0.384	0.806	1.52	---	---	---	1946
1947	---	---	---	16.0	13.3	32.8	24.9	9.20	4.14	13.4	---	---	---	1947
1948	---	---	---	37.1	60.4	13.1	10.8	14.5	1.38	0.367	0.728	0.812	---	1948
1949	0.498	0.439	0.409	28.0	23.4	8.88	3.08	3.76	0.524	3.52	5.05	1.65	8.42	1949
1950	0.882	0.638	0.601	21.5	143	51.3	40.1	11.0	16.2	27.6	7.87	2.48	28.0	1950
1951	1.38	0.816	1.78	45.9	57.5	10.9	1.10	1.50	4.08	3.81	1.80	1.07	11.0	1951
1952	0.400	0.403	0.458	13.8	4.48	2.54	7.04	1.87	0.381	0.391	0.595	0.465	2.88	1952
1953	0.280	0.358	1.78	9.20	8.49	15.3	4.43	0.761	1.13	1.66	1.49	0.585	3.79	1953
1954	0.357	0.413	0.817	18.6	31.2	27.1	3.43	0.573	0.675	0.835	0.485	0.442	7.06	1954
1955	0.323	0.210	0.185	31.3	20.4	28.8	7.42	0.950	0.727	3.21	1.90	0.983	8.01	1955
1956	0.811	0.603	0.267	30.5	58.7	29.0	24.8	8.74	28.2	3.30	22.8	4.11	17.5	1956
1957	0.838	0.480	6.58	41.7	32.7	28.2	58.1	15.5	28.1	16.4	13.0	2.13	20.2	1957
1958	0.753	0.623	1.40	5.54	2.87	2.10	15.9	2.84	0.402	1.09	3.44	2.42	3.31	1958
1959	0.838	0.413	0.477	36.0	28.7	21.5	5.42	1.61	1.62	5.98	4.73	0.840	9.08	1959
1960	0.382	0.356	0.205	38.8	27.7	11.6	4.77	1.25	0.570	0.360	2.08	0.256	7.23	1960
1961	0.141	0.042	2.29	10.6	7.74	1.11	0.285	0.103	0.672	2.10	1.08	0.386	2.23	1961
1962	0.346	0.349	0.132	16.7	42.5	58.8	28.4	23.5	13.3	3.10	3.79	2.72	16.2	1962
1963	0.469	0.351	4.00	38.4	23.9	29.0	12.2	3.09	0.840	0.777	0.967	0.283	9.61	1963
1964	0.071	0.047	0.127	19.4	26.8	24.1	24.8	4.19	4.22	19.4	8.44	1.37	11.1	1964
1965	0.152	0.087	0.082	43.7	71.8	48.0	26.6	5.51	8.28	23.5	14.1	7.88	20.7	1965
1966	3.88	2.13	5.99	92.8	97.1	46.8	19.6	4.49	8.27	1.75	1.55	1.92	24.1	1966
1967	0.555	0.217	1.39	73.3	78.3	25.2	3.89	0.877	0.080	0.294	0.388	0.718	15.3	1967
1968	0.348	0.080	0.601	16.6	5.53	31.7	51.4	45.7	47.0	19.0	10.7	3.40	19.5	1968
1969	1.18	0.846	1.01	45.9	59.5	20.3	4.25	3.87	2.03	4.28	3.07	1.46	12.3	1969
1970	0.894	0.814	0.548	28.5	83.2	81.2	39.1	2.00	3.26	2.12	7.34	1.50	21.8	1970
1971	0.887	0.424	0.821	35.8	27.7	10.3	3.70	1.24	0.527	2.86	11.2	2.41	8.15	1971
1972	0.873	0.480	1.25	22.9	33.6	10.2	2.03	0.840	0.400	1.09	0.890	0.281	8.22	1972
1973	0.301	0.281	5.88	3.16	3.64	2.48	1.07	2.35	4.88	17.1	6.26	1.88	4.21	1973
1974	0.878	0.547	0.482	37.4	100	84.3	7.50	13.3	14.4	3.89	3.22	1.34	20.7	1974
1975	0.813	0.939	0.858	18.4	64.6	33.3	37.2	3.74	0.787	0.788	1.17	0.585	13.7	1975
1976	0.506	0.274	0.384	27.8	5.84	3.26	2.72	0.288	0.107	0.247	0.322	0.087	3.54	1976
1977	0.095	0.088	0.404	4.18	1.27	1.81	1.58	0.384	0.888	5.06	4.38	3.82	1.97	1977
1978	1.52	0.807	0.743	34.1	45.5	9.11	10.1	8.08	4.44	1.71	1.32	0.802	9.53	1978
1979	0.500	0.382	0.478	31.7	85.9	39.9	3.16	0.788	0.308	0.178	0.588	0.483	13.8	1979
1980	0.388	0.335	0.280	18.4	2.94	0.337	0.097	0.004	0.453	1.28	0.990	0.307	2.21	1980
1981	0.310	0.503	2.71	2.17	1.39	9.26	8.37	1.91	3.43	11.0	5.25	2.88	4.18	1981
1982	0.585	0.552	1.87	30.4	40.2	11.6	9.75	3.82	1.91	18.8	9.78	4.40	11.2	1982
1983	1.22	0.847	25.6	45.4	25.5	19.3	15.3	0.873	1.70	2.57	2.95	1.85	12.0	1983
1984	0.597	0.496	1.73	25.5	7.89	19.3	8.38	1.36	1.09	3.03	3.39	0.788	8.09	1984
1985	0.328	0.195	2.65	28.7	22.0	24.1	32.5	24.4	38.0	23.0	7.82	1.84	17.0	1985
1986	1.02	0.554	8.30	74.5	82.4	29.1	5.34	0.977	0.478	1.54	1.36	0.775	17.3	1986
1987	0.857	0.520	5.34	49.4	10.7	8.94	1.60	0.561	0.111	0.384	0.460	0.245	8.37	1987
1988	0.064	0.023	0.191	10.7	1.18	0.527	1.61	0.218	0.055	0.133	0.184	0.579	1.28	1988
MEAN	0.631	0.438	2.34	26.7	30.4	18.5	11.9	4.66	4.91	5.28	4.28	1.48	10.0	MEAN

LOCATION - LAT 49 11 53 N
LONG 97 03 15 W

DRAINAGE AREA, 5 200 km²
NATURAL FLOW

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	56.1 ON APR 25	0 E ON FEB 1 *	193 000	1913
1914	---	24.6 ON APR 30	---	---	1914
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	30.38 ON APR 29	0.071 ON SEP 22	104 000	1917
1918	---	10.9 ON JUN 1	0 B ON JAN 26	74 500	1918
1919	---	72.2 ON JUL 23	0.2278 ON FEB 28	307 000	1919
1920	---	61.28 ON APR 16	0.142 ON AUG 27	187 000	1920
1921	---	58.4 ON APR 16	0.2278 ON JAN 1	127 000	1921
1922	---	34.5 ON MAY 30	0.1138 ON FEB 7	194 000	1922
1923	---	81.0 ON MAY 4	0.2558 ON MAR 18	268 000	1923
1924	---	55.2 ON APR 27	0 B ON JAN 20	181 000	1924
1925	---	80.3 ON JUN 21	0.1708 ON JAN 15	428 000	1925
1926	---	44.2 ON JUL 8	0.2418 ON MAR 14	338 000	1926
1927	---	142 ON MAY 10	---	---	1927
1928	---	49.0 ON JUL 7	---	---	1928
1929	---	28.6 ON APR 12	---	---	1929
1930	---	40.8 ON MAY 21	---	---	1930
1931	---	35.7 ON APR 8	---	---	1931
1932	---	54.7 ON APR 15	---	---	1932
1933	---	47.0 ON APR 19	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	30.3 ON MAY 2	0 ON AUG 6	---	1936
1937	---	48.4 ON MAY 2	---	---	1937
1938	---	49.6 ON MAY 28	---	---	1938
1939	---	---	---	---	1939
1940	---	22.2 ON APR 24	---	---	1940
1941	---	50.1 ON OCT 10	---	---	1941
1942	---	68.9 ON APR 4	---	---	1942
1943	---	48.6 ON APR 24	---	---	1943
1944	---	41.3 ON SEP 5	---	---	1944
1945	---	58.7 ON MAR 28	---	---	1945
1946	---	48.7 ON APR 7	---	---	1946
1947	---	51.5 ON JUN 30	---	---	1947
1948	---	51.3 ON APR 21	---	---	1948
1949	---	43.6 ON APR 28	0.275 ON OCT 4	203 000	1949
1950	---	230 ON MAY 6 *	0.4818 ON JAN 30	882 000	1950
1951	---	73.8 ON MAY 2	0.340 ON AUG 3	347 000	1951
1952	---	28.88 ON APR 16	0.198 ON SEP 27	85 200	1952
1953	---	33.7 ON JUN 5	0.1988 ON JAN 16	119 000	1953
1954	---	49.6 ON APR 30	0.2558 ON NOV 8	223 000	1954
1955	---	47.0 ON APR 23	0.085 ON MAR 23	283 000	1955
1956	---	87.8 ON APR 25	0.1988 ON MAR 16	555 000	1956
1957	---	93.7 ON JUL 14	0.3688 ON MAR 19	638 000	1957
1958	---	24.1 ON JUL 21	0.198 ON OCT 7	105 000	1958
1959	---	51.88 ON APR 13	0.2838 ON FEB 24	288 000	1959
1960	---	74.8 ON APR 16	0.0748 ON JAN 21	232 000	1960
1961	---	15.98 ON APR 3	0.014 ON SEP 7	70 300	1961
1962	---	77.0 ON MAY 25	0.0518 ON MAR 21	510 000	1962
1963	---	46.2 ON JUN 27	0.0208 ON JAN 16	300 000	1963
1964	40.8 AT 07:00 CST ON JUN 21	40.2 ON JUN 21	0 B ON MAR 8	351 000	1964
1965	90.6 AT 12:00 CST ON MAY 7	90.0 ON MAY 7	0.0178 ON MAR 1	653 000	1965
1966	131 AT 01:00 CST ON MAY 5	130 ON MAY 5	1.07 B ON DEC 31	756 000	1966
1967	124 AT 01:00 CST ON APR 22	121 ON APR 22	0.003 ON SEP 30	481 000	1967
1968	68.5 AT 11:00 CST ON JUL 14	65.7 ON JUL 14	0.0178 ON FEB 25	316 000	1968
1969	75.8 AT 02:30 CST ON MAY 1	75.6 ON APR 30	0.7228 ON APR 1	388 000	1969
1970	110 AT 18:00 CST ON MAY 16	110 ON MAY 16	0.4308 ON MAR 27	867 000	1970
1971	54.7 AT 21:00 CST ON APR 18	54.4 ON APR 18	0.3178 ON FEB 9	257 000	1971
1972	---	47.8 ON MAY 3	0.1568 ON DEC 11	197 000	1972
1973	---	20.4 ON OCT 4	0.2298 ON FEB 13	133 000	1973
1974	148 AT 09:30 CST ON MAY 22 *	145 ON MAY 22	0.4568 ON MAR 19	852 000	1974
1975	75.3 AT 00:00 CST ON MAY 8	75.3 ON MAY 8	0.386 ON SEP 27	432 000	1975
1976	---	42.28 ON APR 7	0 ON SEP 21	112 000	1976
1977	---	11.88 ON APR 12	0.0468 ON JAN 13	62 200	1977
1978	84.3 AT 10:28 CST ON APR 28	84.0 ON APR 28	0.2888 ON MAR 6	300 000	1978
1979	104 AT 14:19 CST ON MAY 13	103 ON MAY 13	0.096 ON OCT 10	434 000	1979
1980	45.0 AT 22:01 CST ON APR 14	40.8 ON APR 15	0 ON JUL 13	88 800	1980
1981	18.8 AT 07:21 CST ON JUL 6	18.6 ON JUL 5	0.0898 ON JAN 17	132 000	1981
1982	50.0 AT 00:15 CST ON MAY 5	50.0 ON MAY 4	0.2878 ON FEB 17	354 000	1982
1983	98.9 AT 00:01 CST ON APR 9	98.5 ON APR 9	0.4358 ON FEB 6	377 000	1983
1984	67.1 AT 21:50 CST ON APR 5	66.18 ON APR 5	0 B ON FEB 6	182 000	1984
1985	84.4 AT 01:23 CST ON APR 5	84.6 ON APR 5	0.1408 ON FEB 10	537 000	1985
1986	101 AT 02:01 CST ON MAY 2	100 ON MAY 2	0.303 ON AUG 27	544 000	1986
1987	72.3 AT 06:28 CST ON APR 9	71.4 ON APR 9	0.035 ON SEP 15	201 000	1987
1988	32.2 AT 02:30 CST ON APR 11	27.88 ON APR 11	0.002 ON SEP 9	40 300	1988
				318 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	2.88	0.572	0.241	0.132	0.087	0.150	0.178	---	---	0.495	1965
1966	---	---	1.74	3.08	1.54	0.128	1.32	0.033	0.010	0.011	---	---	0.983	1966
1967	---	---	0.078	4.51	1.04	0.058	0.340	0.002	0	0	---	---	0.744	1967
1968	---	---	0.527	0.382	0.454	0.084	0.318	2.36	0.787	0.201	---	---	0.636	1968
1969	---	---	0	5.08	1.11	1.43	2.53	0.142	0.028	0.054	---	---	1.41	1969
1970	---	---	0	5.87	5.57	0.342	0.066	0.004	0.002	0.012	---	---	1.49	1970
1971	---	---	0	4.23	0.508	0.890	0.422	0.084	0.076	0.619	---	---	0.852	1971
1972	---	---	0.581	2.73	0.885	0.110	0.026	0.019	0.012	0.015	---	---	0.568	1972
1973	---	---	0.576	0.180	0.137	0.454	0.157	0.075	0.014	0.038	---	---	0.205	1973
1974	---	---	0.001	7.81	3.72	0.441	0.029	0.007	0.005	0.008	---	---	1.49	1974
1975	---	---	0.008	1.57	0.833	0.851	0.332	0.014	0.010	0.024	---	---	0.430	1975
1976	---	---	0.075	5.07	0.225	0.081	0.004	0.004	0	0	---	---	0.870	1976
1977	---	---	0.016	0.112	0.753	0.052	0.002	0	0.232	0.128	---	---	0.182	1977
1978	---	---	0.017	3.49	0.877	0.413	0.726	0.089	0.082	0.051	---	---	0.709	1978
1979	---	---	0.020	5.77	4.01	0.805	0.118	0.028	0.012	0.025	---	---	1.44	1979
1980	---	---	0	1.37	0.111	0.009	0.002	0	0.001	0.015	---	---	0.185	1980
1981	---	0.138	0.119	0.061	0.075	0.418	0.110	0.050	0.003	0.020	---	---	0.109	1981
1982	---	---	0.175	1.04	0.189	0.065	0.014	0.001	0	0.014	---	---	0.182	1982
1983	---	---	0.322	2.37	0.155	0.084	0.014	0	0	0	---	---	0.380	1983
1984	---	---	0.188	0.247	0.418	0.225	0.014	0	0	0.002	---	---	0.135	1984
1985	---	---	2.82	1.50	0.146	0.047	0.012	1.16	0.076	0.288	---	---	0.732	1985
1986	---	---	2.90	2.82	2.33	0.184	0.228	0.053	0.012	0.015	---	---	1.07	1986
1987	---	---	0.219	3.71	0.135	0.032	0.007	0.050	0.006	0.012	---	---	0.513	1987
1988	---	---	0.311	0.617	0.139	0.010	0	0	0	0	---	---	0.134	1988
MEAN	---	0.138	0.464	2.86	1.05	0.307	0.288	0.175	0.062	0.072	---	---	0.854	MEAN

LOCATION - LAT 49 30 10 N
LONG 98 19 40 W

DRAINAGE AREA, 223 km²
NATURAL FLOW

ROSEISLE CREEK NEAR ROSEISLE - STATION NO. 05OF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	11.0 ON APR 15	0 B ON MAR 1 *	10 500	1965
1966	---	14.3 B ON APR 1	0 B ON MAR 1	20 800	1966
1967	---	20.5 ON APR 20	0 B ON MAR 1	15 800	1967
1968	---	16.4 ON AUG 25	0 B ON MAR 1	13 500	1968
1969	---	28.4 ON APR 12	0 B ON MAR 1	29 900	1969
1970	---	40.5 ON APR 29 *	0 B ON MAR 1	31 500	1970
1971	---	27.1 ON APR 10	0 B ON MAR 1	18 100	1971
1972	---	5.088 ON APR 14	0 B ON MAR 1	12 000	1972
1973	---	1.03 ON JUN 18	0 B ON MAR 1	4 340	1973
1974	40.2 AT 12:05 CST ON APR 21 *	37.7 ON APR 21	0.0018 ON MAR 5	31 400	1974
1975	24.6 AT 13:41 CST ON JUN 28	8.38 ON JUN 28	0.0018 ON MAR 24	8 110	1975
1976	21.7 AT 04:17 CST ON APR 6	15.8 ON APR 6	0 ON JUL 28	14 200	1976
1977	8.41 AT 05:26 CST ON MAY 20	5.40 ON MAY 19	0 B ON MAR 1	3 440	1977
1978	---	10.1 B ON APR 10	0 B ON MAR 1	15 000	1978
1979	37.7 AT 04:58 CST ON APR 21	34.0 ON APR 21	0.008 ON SEP 17	30 400	1979
1980	---	5.81E ON APR 6	0 B ON MAR 1	3 820	1980
1981	---	4.84E ON JUN 24	0.001 ON SEP 15	2 310	1[illegible]
1982	5.83E AT 20:31 CST ON APR 12	4.25E ON APR 12	0 B ON MAR 1	3 850	1[illegible]
1983	11.7 E AT 22:14 CST ON APR 7	8.93E ON APR 8	0 B ON MAR 1	7 820	1983
1984	---	1.30E ON JUN 2	0 B ON MAR 1	2 870	1984
1985	15.7 AT 18:08 CST ON AUG 17	9.63E ON MAR 25	0 B ON MAR 1	15 500	1985
1986	23.8 AT 04:05 CST ON MAR 29	19.6 ON MAR 29	0 B ON MAR 1	22 500	1986
1987	33.1 AT 05:29 CST ON APR 6	23.1 ON APR 6	0 B ON MAR 1	10 900	1987
1988	5.98E AT 08:53 CST ON APR 3	4.19E ON APR 3	0 ON JUL 1	2 830	1988
				13 800	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. 05KL001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	1 470	1 830	1 780	770	---	---	1912
1913	---	---	---	---	---	1 300	1 440	1 580	1 330	939	566	340	---	1913
1914	---	---	---	---	812	925	1 180	1 150	---	---	---	---	---	1914
1915	127	142	188	285	838	718	1 510	2 100	2 140	1 350	583	227	827	1915
1916	311	218	153	220	852	1 400	1 910	2 320	2 110	1 740	1 010	578	1 080	1916
1917	453	294	243	300	1 030	1 880	2 220	1 910	1 240	778	508	309	938	1917
1918	286	218	226	503	987	889	1 180	1 320	---	---	---	---	---	1918
1950	---	---	---	---	---	---	---	---	---	518	---	---	---	1950
1951	---	---	---	---	---	1 320	1 480	1 520	1 340	1 210	---	---	---	1951
1952	---	---	---	---	1 580	1 580	1 580	1 510	1 100	728	---	---	---	1952
1953	---	---	---	---	717	1 150	1 800	1 800	1 410	847	---	---	---	1953
1954	---	---	---	---	838	1 440	1 910	1 880	1 750	1 380	1 420	---	---	1954
1955	---	---	---	---	1 570	1 820	1 740	1 420	918	815	---	---	---	1955
1956	---	---	---	---	1 430	1 780	1 570	1 210	800	644	---	---	---	1956
1957	---	---	---	---	1 010	1 310	1 080	718	608	546	---	---	---	1957
1958	---	---	---	---	1 180	1 080	1 120	1 020	728	583	---	---	---	1958
1959	---	---	---	---	809	849	1 240	1 090	786	637	---	---	---	1959
1960	---	---	---	---	1 010	1 150	1 150	1 010	818	---	---	---	---	1960
1961	---	---	---	---	705	824	973	782	672	---	---	---	---	1961
1962	---	---	---	---	---	1 100	1 050	---	---	---	---	---	---	1962
1964	---	---	---	---	---	---	---	---	0	0	0	0	---	1964
1965	0	0	131	534	1 410	1 750	2 110	1 800	997	818	588	458	879	1965
1966	808	680	658	458	1 380	773	1 440	885	799	379	501	612	749	1966
1967	889	702	612	473	456	532	521	661	601	608	624	578	580	1967
1968	691	685	215	393	462	300	212	208	239	336	529	782	423	1968
1969	945	858	807	527	423	385	477	698	409	574	682	826	633	1969
1970	1 030	1 010	858	388	425	481	548	583	537	302	558	858	826	1970
1971	878	857	984	829	522	492	429	528	591	439	612	793	843	1971
1972	853	908	770	659	528	512	828	1 040	880	701	511	672	728	1972
1973	804	803	882	385	87.6	582	838	705	237	441	550	686	573	1973
1974	1 000	895	1 100	890	818	2 870	1 550	805	957	528	583	986	1 070	1974
1975	1 150	1 140	1 110	411	338	360	765	883	757	485	354	886	710	1975
1976	882	766	889	453	356	139	138	110	116	129	317	1 040	446	1976
1977	982	801	471	250	585	259	283	159	383	466	730	735	503	1977
1978	708	578	438	409	203	158	180	265	380	802	743	836	457	1978
1979	1 180	1 130	839	301	279	803	461	248	173	222	250	712	530	1979
1980	888	811	827	199	227	248	728	589	844	783	727	720	614	1980
1981	526	323	117	127	267	834	785	995	728	481	408	868	521	1981
1982	1 180	886	718	564	288	211	217	265	498	386	438	463	491	1982
1983	584	1 190	1 110	896	308	384	172	374	344	591	460	1 050	602	1983
1984	780	480	894	420	448	487	326	378	227	386	378	880	485	1984
1985	893	480	182	242	345	284	324	367	621	378	830	682	478	1985
1986	885	1 060	826	295	206	273	436	637	854	568	877	731	577	1986
1987	984	1 110	805	782	431	403	340	323	274	237	178	187	488	1987
1988	858	708	205	183	220	198	189	266	232	339	197	183	312	1988
MEAN	781	888	590	430	871	858	958	930	764	851	588	647	828	MEAN

LOCATION - LAT 53 08 50 N
LONG 99 20 58 W

DRAINAGE AREA, 384 000 km²
REGULATED SINCE 1964

DATA CONTRIBUTED BY - MANITOBA HYDRO

SASKATCHEWAN RIVER AT GRAND RAPIDS - STATION NO. OSKL001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	1 610 ON AUG 26	---	---	1913
1914	---	1 550 ON AUG 5	---	---	1914
1915	---	2 380 ON SEP 12	127 B ON JAN 1	26 100 000	1915
1916	---	2 480 ON AUG 20	183 B ON MAR 1	34 200 000	1916
1917	---	2 310 ON JUL 18	221 B ON MAR 2	29 500 000	1917
1918	---	1 380 ON AUG 7	208 B ON MAR 7	---	1918
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	1 780 ON JUL 29	---	---	1952
1953	---	1 980 ON AUG 31	---	---	1953
1954	---	---	---	---	1954
1955	---	---	---	---	1955
1956	---	---	---	---	1956
1957	---	---	---	---	1957
1958	---	---	---	---	1958
1959	---	---	---	---	1959
1960	---	---	---	---	1960
1961	---	---	---	---	1961
1962	---	---	---	---	1962
1964	---	---	---	---	1964
1965	---	2 110 ON JUL 1	0 ON JAN 1 *	27 700 000	1965
1966	---	1 440 ON JUL 1	379 ON OCT 1	23 600 000	1966
1967	---	884 ON NOV 29	238 ON DEC 24	18 300 000	1967
1968	---	1 050 ON DEC 31	1.56 ON AUG 4	13 400 000	1968
1969	---	1 110 ON JAN 10	10.2 ON JUN 15	20 000 000	1969
1970	---	1 230 ON FEB 3	118 ON APR 28	19 800 000	1970
1971	---	1 200 ON MAR 11	133 ON MAY 23	20 300 000	1971
1972	---	1 190 ON AUG 12	161 ON MAY 21	23 100 000	1972
1973	---	1 330 ON JUN 26	48.8 ON MAY 19	18 100 000	1973
1974	---	3 280 ON JUN 19 *	196 ON DEC 28	33 800 000	1974
1975	---	1 320 ON FEB 14	91.2 ON NOV 15	22 400 000	1975
1976	---	1 410 ON DEC 21	80.7 ON JUL 4	14 100 000	1976
1977	---	1 400 ON JAN 10	53.8 ON OCT 2	15 900 000	1977
1978	---	1 230 ON DEC 8	96.6 ON APR 30	14 400 000	1978
1979	---	1 420 ON JUN 18	78.7 ON SEP 15	16 700 000	1979
1980	---	1 020 ON NOV 15	67.9 ON MAY 31	19 400 000	1980
1981	---	1 410 ON AUG 8	98.4 ON MAY 3	16 400 000	1981
1982	---	1 300 ON JAN 3	56.4 ON OCT 24	15 500 000	1982
1983	---	1 340 ON FEB 9	62.6 ON JUN 12	19 000 000	1983
1984	---	1 420 ON MAR 12	92.3 ON SEP 23	16 400 000	1984
1985	---	1 280 ON JAN 18	87.5 ON JUL 27	15 100 000	1985
1986	---	1 340 ON NOV 20	98.2 ON JUL 1	18 200 000	1986
1987	---	1 350 ON MAR 2	98.0 ON NOV 15	15 700 000	1987
1988	---	1 240 ON FEB 11	93.0 ON MAY 9	9 860 000	1988
				19 900 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	155	156	184	988	1 510	1 430	1 710	1 850	1 270	708	398	227	867	1913
1914	170	142	127	708	1 280	1 280	1 650	1 140	714	585	476	246	712	1914
1915	127	146	158	595	710	1 270	2 240	2 680	1 850	886	594	198	975	1915
1916	152	121	146	953	1 250	1 740	2 650	2 520	1 970	1 420	845	288	1 170	1916
1917	182	176	175	507	1 930	2 280	2 400	1 600	800	596	540	204	983	1917
1918	124	146	179	1 030	846	927	1 410	1 180	832	589	358	180	850	1918
1919	135	147	126	480	847	842	873	781	864	589	182	88.7	458	1919
1920	82.6	78.4	82.6	130	1 730	1 980	1 740	1 500	771	434	254	188	747	1920
1921	83.0	78.7	98.2	262	1 750	1 880	1 620	1 140	833	580	342	234	728	1921
1922	177	138	132	430	1 260	1 430	1 380	1 080	865	801	394	176	687	1922
1923	123	117	112	345	888	1 330	2 280	1 830	1 240	846	262	158	782	1923
1924	97.4	82.0	113	174	949	977	1 240	942	839	476	214	178	526	1924
1925	136	115	124	896	1 230	1 310	1 560	1 110	1 200	870	462	258	769	1925
1926	177	154	200	551	998	898	981	725	975	1 280	844	225	854	1926
1927	215	185	164	483	1 790	1 820	2 150	1 660	1 510	1 350	758	403	1 070	1927
1928	303	273	261	763	1 460	1 300	2 180	1 850	880	417	213	111	839	1928
1929	72.8	70.8	88.9	303	802	1 220	1 140	529	419	242	117	63.9	424	1929
1930	54.7	53.8	70.2	534	737	984	1 180	813	529	328	243	132	480	1930
1931	112	102	118	480	440	503	1 050	815	644	544	320	---	---	1931
1932	---	---	---	---	1 140	1 500	1 770	1 050	803	507	353	181	---	1932
1933	170	160	150	510	1 420	1 520	1 510	913	686	421	322	243	672	1933
1934	172	202	234	878	1 550	1 420	1 810	1 000	857	488	426	295	730	1934
1935	191	143	213	537	1 050	1 080	1 380	1 250	830	331	155	133	586	1935
1936	102	90.7	91.3	438	1 800	1 260	878	529	487	280	185	87.4	500	1936
1937	80.1	57.1	63.8	506	837	824	833	711	388	304	---	---	---	1937
1938	---	---	---	---	850	1 020	1 380	898	838	426	---	---	---	1938
1939	---	---	---	---	888	706	1 420	818	462	302	---	---	---	1938
1940	---	---	---	---	1 250	948	888	803	415	428	188	115	---	1940
1941	102	75.9	75.6	820	388	380	540	470	413	274	267	83.9	307	1941
1942	86.4	81.5	88.1	425	838	1 180	1 630	1 610	842	610	318	178	827	1942
1943	158	134	147	1 030	1 270	1 010	1 420	1 090	831	348	270	122	847	1943
1944	110	104	103	801	495	880	1 470	1 090	779	437	214	137	837	1944
1945	88.8	118	133	512	823	1 210	1 400	878	582	527	288	192	887	1945
1946	173	189	192	1 000	717	975	1 380	834	569	428	245	120	884	1946
1947	183	154	173	818	1 460	1 330	1 320	852	878	642	488	283	898	1947
1948	284	203	180	333	2 250	2 850	2 230	1 450	927	437	197	103	955	1948
1949	88.7	76.2	102	711	802	780	703	713	430	288	322	120	405	1949
1950	95.1	121	120	444	954	843	1 380	1 060	806	370	214	150	534	1950
1951	175	155	158	759	1 510	1 590	1 750	1 610	1 290	1 110	717	395	940	1951
1952	212	228	240	1 180	1 840	1 360	1 840	1 490	915	531	381	153	888	1952
1953	138	124	159	513	1 220	1 630	2 060	1 480	1 020	517	320	145	783	1953
1954	134	133	187	302	1 270	1 880	2 070	1 700	1 880	1 680	1 150	814	1 110	1954
1955	389	346	273	1 160	1 820	1 880	1 520	1 200	804	426	184	148	838	1955
1956	150	176	185	820	1 960	1 780	1 430	1 070	886	471	307	154	749	1956
1957	131	97.0	124	575	1 490	1 370	912	581	515	377	383	205	585	1957
1958	183	158	196	1 080	1 210	1 200	1 180	904	494	359	224	123	808	1958
1959	153	141	159	957	855	949	1 430	915	491	475	305	262	577	1959
1960	207	178	174	1 040	875	1 020	1 060	786	392	271	187	148	537	1960
1961	135	129	137	526	634	1 120	798	610	368	229	155	88.8	412	1961
1962	125	153	178	395	1 130	851	897	752	421	124	104	110	439	1962
1963	78.4	78.2	87.1	852	817	776	1 110	843	590	412	281	141	500	1963
1964	183	218	212	518	798	905	1 450	899	477	538	389	158	845	1964
1965	208	207	225	885	1 390	1 570	2 300	1 840	883	864	575	318	933	1965
1966	341	225	354	858	1 160	1 230	1 500	1 140	548	338	214	139	873	1966
1967	230	385	404	304	1 010	1 100	1 040	888	440	334	214	153	527	1967
1968	425	213	274	580	513	488	844	547	488	355	360	258	418	1968
1969	413	473	429	932	1 100	888	1 280	954	584	532	327	281	888	1969
1970	424	522	390	441	1 170	775	1 150	900	801	408	410	333	821	1970
1971	483	577	534	808	1 190	888	890	817	435	370	436	337	848	1971
1972	459	403	488	873	1 560	1 080	1 330	1 050	583	538	352	253	730	1972
1973	472	526	511	848	1 000	1 180	878	582	555	488	305	388	832	1973
1974	484	537	800	868	2 330	1 880	1 390	946	837	712	546	430	970	1974
1975	487	527	606	821	1 240	1 180	1 050	895	480	458	443	335	872	1975
1976	413	541	577	788	813	384	483	498	483	473	284	292	479	1976
1977	488	520	345	534	477	894	402	385	438	388	250	268	417	1977
1978	308	338	341	488	1 080	812	788	843	577	578	386	332	858	1978
1979	481	513	564	543	1 570	1 120	538	388	344	313	295	248	874	1979
1980	284	487	500	711	887	890	798	438	372	487	398	222	488	1980
1981	401	484	418	751	868	872	742	1 080	891	512	424	248	887	1981
1982	378	481	433	588	888	818	688	845	384	412	327	288	801	1982
1983	417	488	484	535	1 010	871	771	498	387	438	415	278	533	1983
1984	322	375	362	838	887	885	821	341	357	381	295	288	451	1984
1985	280	311	363	932	1 350	872	589	427	431	402	309	305	548	1985
1986	440	389	472	825	815	788	793	881	534	855	483	425	636	1986
1987	483	578	811	852	839	438	362	388	393	384	300	235	486	1987
1988	254	331	220	528	887	248	305	265	282	288	175	183	308	1988
MEAN	228	239	245	845	1 100	1 130	1 280	989	898	521	354	220	848	MEAN

LOCATION - LAT 53 50 30 N DRAINAGE AREA, 347 000 km²
LONG 101 11 10 W REGULATED

SASKATCHEWAN RIVER AT THE PAS - STATION NO. 05KJ001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	1 810 ON JUL 29	158 E ON JAN 1	27 300 000	1913
1914	---	1 890 ON JUL 15	127 E ON MAR 1	22 500 000	1914
1915	---	2 830 ON AUG 9	127 B ON JAN 1	30 800 000	1915
1916	---	2 920 ON JUL 19	115 B ON FEB 15	37 100 000	1916
1917	---	2 570 ON JUL 2	132 B ON DEC 31	30 400 000	1917
1918	---	1 520 ON JUL 10	117 B ON JAN 24	20 500 586	1918
1919	---	1 000 ON APR 23	88.48 ON DEC 30	14 400 000	1919
1920	---	2 310 ON JUN 3	79.08 ON FEB 13	23 800 000	1920
1921	---	1 840 ON MAY 6	88.08 ON FEB 3	23 000 000	1921
1922	---	1 500 ON JUN 30	125 B ON FEB 28	21 800 000	1922
1923	---	2 370 ON JUL 16	109 B ON MAR 29	24 700 000	1923
1924	---	1 440 ON MAY 9	81.88 ON JAN 22	18 800 000	1924
1925	---	1 880 ON JUL 15	105 B ON JAN 31	23 900 000	1925
1926	---	1 480 ON APR 27	151 B ON FEB 7	20 800 000	1926
1927	---	2 180 ON JUL 12	149 B ON FEB 26	33 800 000	1927
1928	---	2 320 ON JUL 16	80.78 ON DEC 31	26 500 000	1928
1929	---	1 570 ON JUN 27	58.38 ON DEC 31	13 400 000	1929
1930	---	1 240 ON JUL 11	80.78 ON FEB 3 *	18 200 000	1930
1931	---	1 210 ON APR 21	---	---	1931
1932	---	---	---	---	1932
1933	---	1 740 ON MAY 3	136 B ON MAR 23	21 200 000	1933
1934	---	1 930B ON APR 30	167 B ON JAN 12	23 000 000	1934
1935	---	1 580 ON APR 28	112 B ON JAN 29	18 800 000	1935
1936	---	2 220 ON MAY 2	88.08 ON DEC 31	15 800 000	1936
1937	---	1 400B ON APR 28	---	---	1937
1938	---	---	---	---	1938
1939	---	1 620 ON APR 25	---	---	1939
1940	---	---	---	---	1940
1941	---	1 350 ON APR 20	82.08 ON DEC 21	9 870 000	1941
1942	---	1 770 ON JUL 28	84.78 ON JAN 11	19 800 000	1942
1943	---	2 250 ON APR 23	94.88 ON DEC 15	20 400 000	1943
1944	---	1 570 ON JUL 6	88.08 ON MAR 20	17 000 000	1944
1945	---	1 480 ON JUL 12	83.58 ON JAN 11	17 900 000	1945
1946	---	1 480 ON JUL 9	104 B ON DEC 18	17 900 000	1946
1947	---	1 740 ON MAY 5	137 B ON MAR 7	22 000 000	1947
1948	---	3 000 ON JUN 11 *	83.48 ON DEC 28	30 200 000	1948
1949	---	1 220 ON APR 20	70.28 ON JAN 29	12 800 000	1949
1950	---	1 770B ON MAY 8	88.48 ON JAN 15	15 800 000	1950
1951	---	1 850 ON JUL 30	144 B ON FEB 28	28 700 000	1951
1952	---	2 100B ON APR 21	133 B ON DEC 2	27 600 000	1952
1953	---	2 310 ON JUL 4	120 B ON JAN 31	24 700 000	1953
1954	---	2 290 ON JUL 2	118 B ON FEB 12	35 100 000	1954
1955	---	1 940 ON JUN 9	94.08 ON NOV 20	26 300 000	1955
1956	---	2 320 ON MAY 17	127 B ON DEC 22	23 700 000	1956
1957	---	1 840B ON MAY 1	92.98 ON FEB 8	17 800 000	1957
1958	---	1 570 ON APR 28	108 B ON DEC 11	19 200 000	1958
1959	---	1 670B ON APR 22	134 B ON FEB 2	18 200 000	1959
1960	---	1 970B ON APR 29	142 B ON DEC 26	17 000 000	1960
1961	---	1 370 ON JUN 22	81.88 ON DEC 8	13 000 000	1961
1962	---	1 580B ON APR 30	82.9 ON NOV 6	13 800 000	1962
1963	1 410 AT 13:00 CST ON JUL 21	1 400 ON JUL 19	74.88 ON JAN 27	15 800 000	1963
1964	---	1 670 ON JUL 3	124 B ON JAN 3	17 200 000	1964
1965	2 430 AT 08:15 CST ON JUL 23 *	2 370 ON JUL 23	186 B ON JAN 22	29 400 000	1965
1966	1 830 AT 23:15 CST ON JUL 20	1 780 ON JUL 20	108 B ON DEC 30	21 200 000	1966
1967	---	1 630B ON MAY 13	102 B ON DEC 15	16 800 000	1967
1968	---	900B ON APR 29	130 B ON NOV 28	13 200 000	1968
1969	1 640 AT 17:30 CST ON JUL 23	1 630 ON JUL 23	210 B ON JAN 1	21 000 000	1969
1970	---	1 730B ON MAY 9	228 B ON NOV 25	19 800 000	1970
1971	---	1 580B ON APR 28	300 ON OCT 10	20 400 000	1971
1972	---	2 010 ON MAY 2	186 B ON DEC 3	23 100 000	1972
1973	---	1 340 ON JUN 20	205 B ON NOV 16	19 900 000	1973
1974	---	2 410 ON MAY 2	381 B ON DEC 19	30 600 000	1974
1975	---	1 330B ON MAY 5	251 B ON NOV 27	21 200 000	1975
1976	---	891B ON APR 18	220 B ON NOV 28	15 100 000	1976
1977	---	923B ON APR 22	184 B ON NOV 24	13 100 000	1977
1978	---	1 540 ON MAY 2	211 B ON JAN 8	17 600 000	1978
1979	2 080 AT 18:00 CST ON MAY 8	2 000 ON MAY 8	198 B ON DEC 13	18 100 000	1979
1980	1 210 AT 00:01 CST ON APR 22	1 140 ON APR 28	181 B ON DEC 4	15 700 000	1980
1981	1 230 AT 23:45 CST ON AUG 12	1 230 ON AUG 12	190 B ON DEC 21	18 800 000	1981
1982	1 510B AT 10:17 CST ON APR 28	1 470B ON APR 29	204 B ON NOV 24	15 800 000	1982
1983	1 570 AT 17:35 CST ON MAY 2	1 550E ON MAY 2	248 B ON DEC 15	18 800 000	1983
1984	1 170B AT 08:12 CST ON APR 17	1 180B ON APR 17	248 B ON NOV 21	14 300 000	1984
1985	---	1 730B ON APR 22	227 B ON NOV 29	17 300 000	1985
1986	---	1 400 ON APR 26	295 B ON JAN 1	20 100 000	1986
1987	---	1 180B ON APR 18	226 B ON DEC 27	14 800 000	1987
1988	---	1 080B ON APR 26	130 B ON DEC 1	8 730 000	1988
				20 600 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.002	0.018	0.004	0.001	---	---	---	---	---	---	0.005	1977
1978	---	---	0.026	0.228	0.008	0.004	---	---	---	---	---	---	0.066	1978
1979	---	---	0	2.03	0.308	0.021	---	---	---	---	---	---	0.583	1979
1980	---	---	0	0.103	0.001	0	---	---	---	---	---	---	0.026	1980
1981	---	0.017	0.037	0.002	0.001	0.002	---	---	---	---	---	---	0.011	1981
1982	---	---	0	0.730	0	0	---	---	---	---	---	---	0.180	1982
1983	---	---	0	1.26	0.001	0	---	---	---	---	---	---	0.311	1983
1984	---	---	0.002	0	0	0	---	---	---	---	---	---	0	1984
1985	---	---	0.813	0.795	0.002	0	---	---	---	---	---	---	0.403	1985
1986	---	---	0.984	0.058	0.022	0.005	---	---	---	---	---	---	0.271	1986
1987	---	---	0.281	0.769	0	0	0	---	---	---	---	---	0.260	1987
1988	---	---	0.001	0.001	0.001	0	---	---	---	---	---	---	0.001	1988
MEAN	---	0.017	0.178	0.500	0.029	0.003	0	---	---	---	---	---	0.177	MEAN

LOCATION - LAT 50 16 16 N
LONG 101 23 04 W
DRAINAGE AREA, 187 km²
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.063 AND 0 m³/s OCCURRED IN FEBRUARY

SCISSOR CREEK NEAR MCAULEY - STATION NO. 05ME009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	0.139 AT 18:20 CST ON APR 8	0.075 ON APR 8	0B ON MAR 1 *	87.8	1977
1978	---	0.5758 ON APR 3	0B ON MAR 1	692	1978
1979	13.9 AT 16:00 CST ON APR 24 *	12.7 A ON APR 23 *	0B ON MAR 1	6 140	1979
1980	---	0.3798 ON APR 8	0B ON MAR 1	271	1980
1981	0.153 AT 17:32 CST ON APR 30	0.0638 ON MAR 19	0 ON APR 7	114	1981
1982	5.86 AT 00:08 CST ON APR 14	5.10 ON APR 14	0B ON MAR 1	1 890	1982
1983	10.5 AT 22:11 CST ON APR 20	9.04 ON APR 21	0B ON MAR 1	3 270	1983
1984	0.022 AT 18:54 CST ON MAR 26	0.012 ON MAR 26	0B ON MAR 1	4.41	1984
1985	8.76 B AT 08:51 CST ON MAR 29	8.22 B ON MAR 28	0B ON MAR 1	4 250	1985
1986	---	5.92 B ON MAR 26	0B ON MAR 1	2 850	1986
1987	6.81 AT 01:48 CST ON APR 5	5.40 ON APR 4	0B ON MAR 1	2 740	1987
1988	0.031 AT 15:40 CST ON APR 1	0.0118 ON MAR 24	0B ON MAR 1	5.87	1988
				1 880	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0.005	5.97	1.58	1.13	0.505	0.297	0.285	2.07	---	---	1.59	1969
1970	---	---	0.037	7.92	8.12	1.68	3.41	2.02	0.071	1.48	---	---	3.08	1970
1971	---	---	0.025	10.5	1.25	2.17	1.48	0.268	0.006	0.540	---	---	2.01	1971
1972	---	---	0.019	8.22	4.44	0.283	0.132	0.031	0.001	0.002	---	---	1.75	1972
1973	---	---	0.018	0.319	0.445	8.96	0.619	0.123	1.05	0.922	---	---	1.58	1973
1974	---	---	0.018	14.4	13.6	2.96	0.033	0.004	0.185	0.195	---	---	3.69	1974
1975	---	---	0	4.09	4.72	2.81	0.128	0.001	0.853	1.15	---	---	1.70	1975
1976	---	---	0	10.7	1.70	13.2	0.842	0.022	0.001	0	---	---	3.23	1976
1977	---	---	0	0.352	0.369	0.029	0.133	0.231	1.81	1.01	---	---	0.488	1977
MEAN	---	---	0.014	7.18	4.02	3.70	0.809	0.333	0.448	0.818	---	---	2.15	MEAN

LOCATION - LAT 51 59 50 N
LONG 100 13 50 W
DRAINAGE AREA, 393 km²
NATURAL FLOW

SCLATER RIVER NEAR CAMPERVILLE - STATION NO. 05LG005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1969	---	35.7 ON APR 14	0 ON SEP 5 *	33 700	1969
1970	---	22.3 ON APR 28	0.028 ON SEP 14	65 500	1970
1971	---	34.6 ON APR 13	0 ON SEP 3	42 500	1971
1972	---	37.7 ON APR 21	0 B ON MAR 1	37 000	1972
1973	45.4 AT 08:00 CST ON JUN 22	44.2 ON JUN 22	0 B ON MAR 1	33 000	1973
1974	88.0 AT 04:30 CST ON APR 21 *	85.0 ON APR 21 *	0.001 ON AUG 7	62 300	1974
1975	15.5 AT 11:14 CST ON APR 28	14.5 ON APR 28	0 B ON MAR 1	36 000	1975
1976	75.0 AT 21:00 CST ON JUN 15	65.7 ON JUN 16	0 B ON MAR 1	68 400	1976
1977	8.71 AT 11:17 CST ON SEP 28	5.40 ON SEP 28	0 B ON MAR 1	10 300	1977
				45 400	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.013	0.888	1.07	0.202	0.115	0.059	0.050	0.557	---	---	0.486	1959
1960	---	---	0	1.46	1.73	0.330	0.127	0.138	0.075	0.111	---	---	0.881	1960
1961	---	---	0.058	0.255	0.408	0.105	0.064	0.001	0.062	0.116	---	---	0.207	1961
1962	---	---	0.001	0.293	0.467	0.188	0.044	0.050	0.041	0.048	0.105	---	0.237	1962
1963	---	---	0.028	1.49	0.894	0.818	0.124	0.071	0.188	0.108	---	---	0.778	1963
1964	---	---	0	0.894	0.598	0.105	0.079	0.055	0.064	0.068	---	---	0.348	1964
1965	---	---	0.012	1.03	1.28	0.576	0.212	0.113	0.078	0.238	---	---	0.725	1965
1966	---	---	0.283	0.932	1.38	0.349	0.144	0.239	0.089	0.145	---	---	0.738	1966
1967	---	---	0.028	0.312	1.89	0.270	0.108	0.085	0.051	0.144	---	---	0.655	1967
1968	---	---	0.025	0.405	0.541	0.274	0.347	0.326	0.268	0.181	---	---	0.311	1968
1969	---	---	0.057	1.02	0.486	1.31	0.796	0.121	0.184	0.211	---	---	0.727	1969
1970	---	---	0.184	1.31	3.15	0.687	0.328	0.114	0.179	0.208	---	---	1.34	1970
1971	---	---	0	0.957	0.471	2.15	0.408	0.180	0.143	0.488	---	---	0.862	1971
1972	---	---	0.058	1.09	1.14	0.257	0.117	0.091	0.085	0.067	---	---	0.636	1972
1973	---	---	0.049	0.212	0.321	0.812	0.110	0.167	0.348	0.371	---	---	0.297	1973
1974	---	---	0	1.45	2.17	0.667	0.212	0.127	0.144	0.135	---	---	1.08	1974
1975	---	---	0	0.743	1.24	1.00	0.201	0.878	2.74	0.909	---	---	0.744	1975
1976	---	---	0.011	2.80	0.842	0.477	0.178	0.091	0.079	0.079	---	---	0.972	1976
1977	---	---	0.010	0.276	0.435	0.256	---	---	---	---	---	---	0.244	1977
1978	---	---	0.026	1.04	0.489	0.290	---	---	---	---	---	---	0.460	1978
MEAN	---	---	0.042	0.825	1.03	0.552	0.206	0.180	0.319	0.233	0.105	---	0.636	MEAN

LOCATION - LAT 50 50 50 N DRAINAGE AREA, 89.4 km²
LONG 99 32 45 W NATURAL FLOW

REMARKS - 58.9 m³/s OCCURRED SEP 19 1975. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SCOTT CREEK NEAR LAURIER - STATION NO. 05LJ026

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	7.36 AT 00:30 CST ON MAY 3	4.25 ON MAY 6	0 B ON MAR 1 *	5 150	1959
1960	7.48 AT 17:00 CST ON MAY 25	4.84 ON APR 20	0 B ON MAR 1	8 290	1960
1961	---	1.48 ON MAY 7	0.0068 ON MAR 27	2 180	1961
1962	---	4.47A ON MAY 30	0 B ON MAR 1	2 500	1962
1963	10.4 B AT 05:15 CST ON APR 15	5.52 ON JUN 10	0 B ON MAR 1	8 160	1963
1964	10.4 B AT 22:35 CST ON APR 24	3.11B ON APR 24	0 B ON MAR 1	3 670	1964
1965	---	12.0 B ON APR 29	0.0068 ON MAR 1	7 640	1965
1966	10.5 AT 21:00 CST ON MAY 4	4.70 ON MAY 5	0.0148 ON MAR 1	7 790	1966
1967	5.07 AT 00:30 CST ON MAY 15	3.57 ON MAY 15	0.0288 ON MAR 1	6 910	1967
1968	---	1.27 ON MAY 8	0 B ON MAR 1	3 280	1968
1969	22.2 AT 03:52 CST ON JUN 27	11.0 ON JUN 27	0.0578 ON MAR 1	7 650	1969
1970	---	11.3 ON MAY 7	0.1848 ON MAR 1	14 100	1970
1971	26.3 AT 14:18 CST ON JUN 6 *	21.6 ON JUN 6 *	0 B ON MAR 1	9 080	1971
1972	5.67B AT 00:00 CST ON APR 25	5.58B ON APR 25	0 B ON MAR 1	6 700	1972
1973	6.26 AT 16:05 CST ON JUN 20	3.96 ON JUN 20	0.0288 ON MAR 1	3 130	1973
1974	12.0 AT 23:55 CST ON MAY 11	6.57 ON APR 27	0 B ON MAR 1	11 300	1974
1975	11.6 AT 08:47 CST ON MAY 8	7.98 ON JUN 10	0 B ON MAR 1	7 850	1975
1976	11.3 AT 17:20 CST ON APR 19	7.14 ON APR 9	0 B ON MAR 1	10 300	1976
1977	---	1.42 ON MAY 20	0 B ON MAR 1	2 580	1977
1978	---	3.34B ON APR 24	0.0208 ON MAR 1	4 850	1978
				6 710	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	142	113	79.3	65.0	425	783	708	510	340	232	176	142	313	1955
1956	113	102	86.3	142	481	783	562	331	218	147	113	85.0	265	1956
1957	65.1	82.3	59.5	142	467	793	807	728	595	425	276	184	385	1957
1958	142	127	113	108	204	498	473	425	419	368	289	204	282	1958
1959	150	123	96.3	99.1	560	920	783	487	411	326	255	198	371	1959
1960	170	113	85.0	198	934	1 610	1 270	714	382	287	241	180	518	1960
1961	156	122	87.8	113	416	481	614	487	382	303	238	184	300	1961
1962	142	122	102	130	651	1 300	779	402	283	227	170	142	372	1962
1963	113	99.1	87.8	93.4	269	711	748	569	379	246	176	130	303	1963
1964	110	99.1	93.4	85.0	99.1	453	750	736	509	425	241	181	324	1964
1965	150	113	79.3	76.5	227	462	416	348	263	203	177	153	223	1965
1966	137	120	86.5	81.1	125	1 120	821	557	331	248	182	139	339	1966
1967	125	108	93.3	103	154	1 200	1 080	773	384	268	198	153	384	1967
1968	122	106	93.7	90.6	153	957	816	674	532	464	346	261	385	1968
1969	193	152	122	122	198	419	378	382	847	764	443	345	364	1969
1970	246	187	144	142	368	580	418	264	257	278	283	219	284	1970
1971	180	148	120	113	283	490	713	726	802	786	577	391	447	1971
1972	236	173	124	114	721	667	789	776	750	584	384	268	485	1972
1973	200	162	127	109	563	423	332	233	210	161	148	118	234	1973
1974	94.8	76.1	86.7	64.4	385	414	351	479	520	373	281	200	273	1974
1975	154	102	78.2	80.9	459	574	712	585	420	306	225	171	325	1975
1976	139	120	106	112	381	620	588	337	339	454	394	308	325	1976
1977	235	177	127	220	808	791	724	756	580	432	320	227	452	1977
1978	158	116	88.5	79.6	310	805	728	759	992	804	524	325	476	1978
1979	207	150	112	86.5	277	772	526	355	267	221	181	148	277	1979
1980	122	96.6	76.3	109	---	---	438	535	1 090	828	526	318	---	1980
1981	195	139	111	104	553	884	536	385	329	282	207	153	306	1981
1982	115	96.3	81.9	76.1	410	633	515	364	335	386	221	177	294	1982
1983	150	129	110	94.8	148	1 400	1 280	805	921	966	647	352	585	1983
1984	253	186	143	298	1 080	749	505	361	330	298	214	180	384	1984
1985	158	127	100	79.2	228	834	525	344	288	280	202	173	277	1985
1986	153	123	97.2	82.7	218	---	1 060	693	436	325	227	185	---	1986
1987	131	107	83.1	87.7	305	775	784	435	345	281	258	209	320	1987
1988	177	145	116	91.2	154	---	---	526	304	220	163	136	---	1988
MEAN	157	125	100	113	395	785	688	526	487	389	278	204	350	MEAN

LOCATION - LAT 58 53 30 N DRAINAGE AREA, 48 100 km²
LONG 98 15 31 W NATURAL FLOW

SEAL RIVER BELOW GREAT ISLAND - STATION NO. 06GD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1955	---	783E ON JUN 1	79.3E ON MAR 1	9 890 000	1955
1956	---	783E ON JUN 1	85.0E ON DEC 1	8 380 000	1956
1957	---	807E ON JUL 1	59.5E ON MAR 1 *	12 200 000	1957
1958	---	498E ON JUN 1	108 E ON APR 1	8 890 000	1958
1959	---	920E ON JUN 1	96.3E ON MAR 1	11 700 000	1959
1960	---	1 610E ON JUN 1	85.0E ON MAR 1	16 400 000	1960
1961	---	614E ON JUL 1	87.8E ON MAR 1	9 450 000	1961
1962	---	1 300E ON JUN 1	102 E ON MAR 1	11 700 000	1962
1963	---	748E ON JUL 1	87.8E ON MAR 1	9 550 000	1963
1964	---	750E ON JUL 1	85.0E ON APR 1	10 300 000	1964
1965	---	462E ON JUN 1	78.5E ON APR 1	7 030 000	1965
1966	---	1 310B ON JUN 10	87.8B ON MAR 31	10 700 000	1966
1967	---	1 350E ON JUN 7	86.7B ON MAR 21	12 200 000	1967
1968	---	857E ON JUN 1	90.6E ON APR 1	12 200 000	1968
1969	---	934 ON SEP 21	122 E ON MAR 1	11 500 000	1969
1970	---	800E ON JUN 1	142 E ON APR 1	8 950 000	1970
1971	898 AT 22:51 CST ON SEP 30	892 ON SEP 30	109 B ON MAR 31	14 100 000	1971
1972	---	1 040 ON MAY 27	109 B ON APR 11	14 700 000	1972
1973	1 000 AT 23:00 CST ON MAY 23	817 ON MAY 24	103 B ON APR 11	7 400 000	1973
1974	---	736B ON MAY 25	63.4B ON APR 7	8 610 000	1974
1975	779 AT 18:00 CST ON JUL 8	785 ON JUL 8	74.5B ON MAR 28	10 300 000	1975
1976	714 AT 18:00 CST ON JUN 20	711 ON JUN 20	108 B ON MAR 21	10 300 000	1976
1977	---	917B ON MAY 13	115 B ON MAR 28	14 300 000	1977
1978	---	1 040 ON SEP 7	79.3B ON APR 7	15 000 000	1978
1979	---	950B ON JUN 2	94.9B ON APR 10	8 720 000	1979
1980	---	1 190 ON SEP 10	84.3B ON APR 8	---	1980
1981	---	1 010B ON MAY 25	104 B ON APR 1	9 650 000	1981
1982	---	759 ON JUN 28	74.1B ON APR 27	9 270 000	1982
1983	1 050 AT 13:15 CST ON JUN 28 *	1 040 ON JUN 28 *	90.2B ON APR 26	15 500 000	1983
1984	---	1 480B ON MAY 23	127 B ON APR 4	12 100 000	1984
1985	---	922A ON JUN 13	71.7B ON MAY 6	8 730 000	1985
1986	---	---	77.1B ON MAY 8	---	1986
1987	998 AT 15:05 CST ON JUN 26	961 ON JUN 26	84.8B ON APR 15	10 100 000	1987
1988	---	---	---	---	1988
				11 100 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	5.61	2.84	1.74	0.913	0.048	1.84	1.13	0.283	---	1915
1916	---	---	---	9.89	5.18	2.19	1.57	0.842	0.278	0.888	---	---	2.93	1916
1917	---	---	---	6.16	3.10	0.808	0.416	0.068	0.041	0.142	---	---	1.24	1917
1918	---	---	---	1.05	0.729	2.53	0.582	0.471	0.208	0.648	0.485	---	0.883	1918
1919	---	---	---	3.55	1.88	0.775	12.3	0.448	2.31	---	---	---	---	1919
1920	---	---	---	---	4.57	5.07	0.121	0	---	---	---	---	---	1920
1921	---	---	---	6.13	3.93	2.18	---	---	---	---	---	---	---	1921
1922	---	---	---	4.70	8.96	0.412	---	---	---	---	---	---	---	1922
1923	---	---	---	---	3.41	1.34	0.881	0.879	---	---	---	---	---	1923
1924	---	---	---	---	5.94	1.74	0.715	1.17	0.202	1.68	---	---	---	1924
1925	---	---	---	10.2	4.15	18.2	3.06	0.407	0.908	5.34	---	---	5.13	1925
1926	---	---	---	3.12	1.47	5.48	2.70	0.530	0.548	5.41	---	---	2.75	1926
1927	---	---	---	14.8	20.7	3.03	0.976	0.307	0.584	---	---	---	---	1927
MEAN	---	---	---	5.15	5.37	3.72	2.28	0.475	0.567	2.26	0.808	0.283	2.79	MEAN

LOCATION - LAT 49 40 00 N DRAINAGE AREA, 723 km²
LONG 96 39 00 W NATURAL FLOW

SEINE RIVER AT RAILWAY BRIDGE, NEAR STE. ANNE DES CHENES - STATION NO. 05OH001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1915	---	---	0 ON AUG 4 *	---	1915
1916	---	22.4 ON APR 22	0 ON AUG 26	54 200	1916
1917	---	13.5 ON APR 19	0 ON JUL 31	23 000	1917
1918	---	5.44 ON JUN 6	0.113 ON AUG 7	16 300	1918
1919	---	56.1 ON JUL 5 *	0 ON SEP 2	---	1919
1920	---	---	0 ON JUL 12	---	1920
1921	---	7.90 ON APR 15	0.311 ON JUN 25	---	1921
1922	---	---	0 ON JUN 13	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	44.6 ON JUN 10	0.113 ON AUG 5	113 000	1925
1926	---	17.5 ON JUN 25	0.386 ON AUG 15	50 800	1926
1927	---	56.1 ON MAY 11	---	---	1927
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		51 800	MEAN

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1926	---	---	---	---	---	---	---	---	---	5.41	---	---	---	1926
1927	---	---	---	---	20.7	3.03	0.976	0.307	0.584	1.89	---	---	4.55	1927
1928	---	---	---	---	1.63	7.18	7.08	1.26	0.889	0.678	---	---	3.17	1928
1929	---	---	---	---	1.38	2.78	0.535	0.112	0.208	0.574	---	---	0.828	1929
1930	---	---	---	---	5.56	0.994	0.744	0.198	0.224	0.583	---	---	1.56	1930
1931	---	---	---	3.78	2.66	0.672	0.206	0.085	0.231	0.418	0.597	---	0.717	1931
1932	---	---	---	---	1.92	0.308	0.331	0.078	0.155	0.834	---	---	0.576	1932
1933	---	---	---	---	2.83	1.90	0.172	0.067	0.143	0.213	---	---	0.886	1933
1934	---	---	---	---	0.820	0.554	0.261	0.070	0.139	0.367	---	---	0.365	1934
1935	---	---	---	---	1.73	1.14	0.809	0.204	0.227	0.314	---	---	0.703	1935
1936	---	---	---	---	1.38	0.372	0.084	0.015	0.150	---	---	---	---	1936
MEAN	---	---	---	3.78	4.18	1.89	1.09	0.241	0.281	1.10	0.597	---	1.80	MEAN

LOCATION - LAT 49 40 35 N DRAINAGE AREA, 727 km²
LONG 96 41 00 W NATURAL FLOW

SEINE RIVER AT STE. ANNE DES CHENES - STATION NO. 05OH003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAY TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1926	---	---	---	---	1926
1927	---	56.1 ON MAY 11 *	0.218 ON AUG 15	72 400	1927
1928	---	16.7 ON JUN 23	0.736 ON AUG 20	50 400	1928
1929	---	7.25 ON MAY 31	0.028 ON AUG 10	14 700	1929
1930	---	17.3 ON MAY 15	0.068 ON AUG 18	24 800	1930
1931	---	5.38 ON MAY 13	0.054 ON AUG 19	11 400	1931
1932	---	2.87 ON MAY 4	0.014 ON AUG 30	8 150	1932
1933	---	10.8 ON MAY 29	0.006 ON SEP 8	14 100	1933
1934	---	1.17 ON MAY 1	0.003 ON AUG 4 *	5 820	1934
1935	---	2.94 ON MAY 14	0.076 ON AUG 15	11 200	1935
1936	---	2.18 ON MAY 2	0.003 ON AUG 2	---	1936
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		23 600	MEAN

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	1.37	50.4	6.87	0.044	0.028	0.008	0.011	0.042	---	---	7.25	1967
1968	---	---	0.219	2.90	4.12	1.52	1.01	2.33	1.31	0.219	---	---	1.70	1968
1969	---	---	0	21.4	5.13	0.881	0.557	0.190	0.036	0.090	---	---	3.49	1969
1970	---	---	0	23.6	18.6	7.00	0.371	0.035	0.230	0.090	---	---	8.20	1970
1971	---	---	0	14.6	2.67	0.492	0.150	0.046	0.118	0.733	---	---	3.32	1971
1972	---	---	1.69	13.2	1.88	0.077	0.031	0.079	0.037	0.186	---	---	2.12	1972
1980	---	---	0.004	6.12	0.085	0.045	0.029	0.014	0.284	0.427	---	---	0.858	1980
1981	---	---	0.572	0.321	0.251	0.353	0.861	0.408	0.274	0.484	---	---	0.408	1981
1982	---	---	0.893	10.0	0.441	3.89	3.01	0.553	0.185	0.823	---	---	2.36	1982
1983	---	---	7.53	15.2	2.36	1.28	1.37	0.051	0.071	0.128	---	---	3.47	1983
1984	---	---	0.895	0.592	0.285	8.03	0.383	0.054	0.074	0.243	---	---	1.12	1984
1985	---	---	5.14	1.80	1.70	0.123	0.243	1.23	0.093	0.335	---	---	1.34	1985
1986	---	---	8.72	13.4	18.0	0.365	0.421	0.141	0.121	0.468	---	---	5.21	1986
1987	---	---	0.312	12.9	0.213	0.128	0.067	0.089	0.030	0.189	---	---	1.72	1987
1988	---	---	0.245	2.04	0.036	0.014	0.047	0.004	0.010	0.094	---	---	0.307	1988
MEAN	---	---	1.83	12.8	4.18	1.47	0.554	0.350	0.191	0.269	---	---	2.66	MEAN

LOCATION - LAT 49 41 40 N
LONG 96 59 19 W REGULATED

SEINE RIVER DIVERSION NEAR ILE DES CHENES - STATION NO. 05OE011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1967	---	132 ON APR 21 *	0 B ON MAR 1 *	154 000	1967
1968	---	16.1 ON MAY 15	0 B ON MAR 1	36 000	1968
1969	---	76.6 ON APR 10	0 B ON MAR 1	73 700	1969
1970	---	72.6 ON APR 15	0 B ON MAR 1	131 000	1970
1971	---	55.2 B ON APR 9	0 B ON MAR 1	49 000	1971
1972	---	32.0 B ON APR 17	0 B ON MAR 1	44 600	1972
1980	43.5 B AT 12:00 CST ON APR 7	42.6 B ON APR 7	0 B ON MAR 1	18 200	1980
1981	7.53 AT 16:31 CST ON JUN 29	5.61 ON JUN 30	0.008 ON JUL 26	6 590	1981
1982	33.8 AT 22:31 CST ON APR 13	29.6 B ON APR 13	0 B ON MAR 1	50 300	1982
1983	---	38.7 B ON APR 4	0 B ON MAR 1	73 600	1983
1984	20.5 AT 11:54 CST ON JUN 13	19.3 ON JUN 13	0 B ON MAR 1	23 600	1984
1985	38.8 AT 23:11 CST ON MAR 24	29.5 B ON MAR 24	0 B ON MAR 1	28 400	1985
1986	72.4 AT 11:13 CST ON MAY 1 *	68.1 ON MAY 1	0.008 ON SEP 1	110 000	1986
1987	---	---	0 B ON MAR 1	---	1987
1988	---	13.0 B ON APR 3	0 B ON MAR 1	8 490	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		67 700	MEAN

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	3.99	0.843	0.387	0.804	0.188	0.262	1.27	2.13	---	---	1.26	1973
1974	---	---	---	56.3	48.5	4.17	---	---	---	---	---	---	---	1974
1975	---	---	0	3.34	1.51	2.02	4.26	0.027	0.024	0.088	---	---	1.40	1975
1976	---	---	0.001	8.04	0.932	3.76	0.248	0.022	0.035	0.001	---	---	1.80	1976
1977	---	---	0.105	1.08	0.189	0.088	0.178	0.039	0.872	0.244	---	---	0.323	1977
1978	---	---	0.228	26.2	1.71	0.057	0.388	0.004	0.007	0.007	---	---	3.75	1978
1979	---	---	0	22.2	1.82	2.83	0.032	0.020	0.047	0.054	---	---	3.32	1979
MEAN	---	---	0.721	17.2	7.67	1.99	0.881	0.081	0.343	0.417	---	---	1.94	MEAN

LOCATION - LAT 49 41 50 N
LONG 97 05 30 W REGULATED

SEINE RIVER DIVERSION NEAR ST. ADOLPHE - STATION NO. 05OE013

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	18.3 B ON MAR 14	0B ON MAR 1 *	26 700	1973
1974	---	176 E ON APR 22 *	0B ON APR 1	---	1974
1975	40.2 AT 08:45 CST ON JUL 1	37.7 ON JUL 1	0B ON MAR 1	29 600	1975
1976	---	37.1 ON JUN 13	0B ON MAR 1	33 900	1976
1977	5.78 AT 09:30 CST ON APR 10	4.18 ON APR 10	0B ON MAR 1	8 820	1977
1978	92.3 B AT 23:30 CST ON APR 10 *	84.4 B ON APR 10	0B ON MAR 1	78 400	1978
1979	---	118 R ON APR 20	0B ON MAR 1	70 400	1979
	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986		41 200	MEAN

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	1.27	0.864	0.458	0.498	0.072	0.098	0.218	1.15	---	---	0.579	1973
1974	---	---	0	20.6	18.4	3.06	0.003	0.003	0.003	0.003	---	---	4.97	1974
1975	---	---	0	1.03	2.23	1.45	2.23	0	0	0	---	---	0.887	1975
1976	---	---	0	2.89	0.886	0.505	0.115	0	0	0	---	---	0.530	1976
1977	---	---	0.005	0.097	0.001	0	0	0	0	0	---	---	0.013	1977
1978	---	---	0.004	8.49	1.81	0.089	0.017	0.001	0.002	0	---	---	1.30	1978
1979	---	---	0	7.70	7.28	2.50	0	0	0	0	---	---	2.17	1979
1980	---	---	0	1.81	C	0	0	0	0	0	---	---	0.221	1980
1981	---	---	0.004	0.002	0	0	0	0	0	0	---	---	0.001	1981
1982	---	---	0.095	4.80	0.118	2.25	1.71	0.186	0	0.188	---	---	1.15	1982
1983	---	---	0.679	8.06	1.85	0.875	1.06	0	0	0	---	---	1.55	1983
1984	---	---	0.203	0.280	0.023	5.32	0.150	0	0	0	---	---	0.731	1984
1985	---	---	0.995	0.705	1.34	0.111	0.067	0.018	0.001	0.181	---	---	0.431	1985
1986	---	---	1.63	8.79	10.3	0.217	0.163	0	0	0.216	---	---	2.86	1986
1987	---	---	0.158	5.56	0.027	0	0	0	0	0	---	---	0.704	1987
1988	---	---	0.001	0.288	0	0	0	0	0	0	---	---	0.033	1988
MEAN	---	---	0.315	4.53	2.85	1.05	0.349	0.018	0.014	0.108	---	---	1.12	MEAN

LOCATION - LAT 49 39 10 N
LONG 96 37 10 W REGULATED

SEINE RIVER DIVERSION NEAR STE. ANNE - STATION NO. 05OH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	3.68 ON OCT 15	08 ON MAR 1 *	12 200	1973
1974	---	81.7 A ON APR 22 *	08 ON MAR 1	105 000	1974
1975	17.8 AT 03:05 CST ON JUL 2	17.3 ON JUL 2	08 ON MAR 1	18 300	1975
1976	4.87 AT 12:52 CST ON APR 23	4.68 ON APR 22	08 ON MAR 1	11 200	1976
1977	0.428 AT 21:00 CST ON APR 12	0.252 ON APR 12	08 ON MAR 1	287	1977
1978	---	22.1 B ON APR 10	08 ON MAR 1	27 800	1978
1979	---	34.0 ON APR 19	08 ON MAR 1	46 000	1979
1980	8.89 B AT 18:00 CST ON APR 7	8.64 B ON APR 7	08 ON MAR 1	4 880	1980
1981	0.030 AT 08:36 CST ON MAR 26	0.025 ON MAR 26	0 ON MAR 1	18.9	1981
1982	19.2 AT 23:36 CST ON APR 16	16.7 B ON APR 16	08 ON MAR 1	24 200	1982
1983	---	26.1 B ON APR 2	08 ON MAR 1	32 800	1983
1984	18.9 AT 15:59 CST ON JUN 12	18.9 ON JUN 13	08 ON MAR 1	15 500	1984
1985	5.05 B AT 20:54 CST ON MAR 24	4.57 B ON MAR 25	08 ON MAR 1	9 120	1985
1986	28.6 AT 18:14 CST ON MAY 3 *	27.6 ON MAY 3	08 ON MAR 1	55 200	1986
1987	---	12.0 E ON APR 9	08 ON MAR 1	14 900	1987
1988	---	2.44 B ON APR 5	08 ON MAR 1	897	1988
				23 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05OH005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	5.73	1.03	0.229	0.205	0.807	0.383	---	---	---	1942
1943	---	---	---	9.12	3.38	7.16	2.25	0.261	0.255	0.235	---	---	---	1943
1944	---	---	---	2.12	0.910	13.0	2.27	10.7	20.4	1.87	5.69	---	---	1944
1945	---	---	---	15.5	5.88	1.43	2.32	0.400	4.77	2.27	---	---	---	1945
1946	---	---	11.3	7.65	2.01	0.821	0.783	0.101	0.484	1.49	---	---	---	1946
1947	---	---	0	11.5	5.80	4.86	1.60	2.63	0.950	2.54	---	---	---	1947
1948	---	---	0.132	14.0	7.09	0.827	1.71	3.87	0.417	0.238	0.491	0.272	---	1948
1949	0.112	0.084	0.128	8.33	3.95	1.16	0.258	0.290	0.128	1.31	1.89	0.405	1.50	1949
1950	0.253	0.197	0.139	14.2	33.6	4.82	4.29	0.585	3.01	5.08	1.63	0.477	5.75	1950
1951	0.308	0.119	0.427	10.2	5.49	1.19	0.228	0.212	0.425	0.588	0.358	0.206	1.73	1951
1952	0.057	0.080	0.092	1.82	0.828	0.584	0.580	0.138	0.063	0.205	0.187	0.148	0.375	1952
1953	0.086	0.051	0.377	1.94	1.32	3.88	1.26	0.171	0.537	0.322	0.280	0.185	0.872	1953
1954	0.049	0.095	0.118	3.42	5.81	11.8	1.82	0.301	0.754	1.38	0.848	0.488	2.19	1954
1955	0.212	0.119	0.109	20.8	3.99	4.32	0.671	0.089	0.057	0.274	0.181	0.107	2.95	1955
1956	0.033	0.018	0.100	8.85	4.32	1.48	1.74	0.987	3.85	6.774	4.87	0.484	2.27	1956
1957	0.195	0.083	4.11	10.7	4.88	5.02	2.85	0.201	0.190	0.375	0.393	0.131	2.38	1957
1958	0.076	0.041	0.257	0.809	0.882	0.863	2.15	0.157	0.058	0.362	0.440	0.186	0.482	1958
1959	0.103	0.024	0.062	11.6	7.46	19.6	1.35	2.61	4.00	16.0	2.30	0.425	5.47	1959
1960	0.217	0.194	0.085	26.0	4.14	2.02	0.380	0.169	0.118	0.224	0.535	0.220	2.83	1960
1961	0.233	0.032	0.906	3.52	2.42	0.472	0.135	0.012	0.008	0.274	0.217	0.086	0.883	1961
1962	0.055	0.020	0.106	2.84	3.35	0.947	0.976	0.680	0.481	0.359	0.845	0.452	0.929	1962
1963	0.083	0	0.980	4.31	4.00	5.45	2.09	0.758	0.085	0.145	0.146	0.083	1.51	1963
1964	0.107	0.111	0.053	3.44	3.52	2.85	0.751	0.198	0.318	1.78	0.621	0.180	1.14	1964
1965	0.098	0.047	0.088	4.82	3.58	3.58	2.64	0.264	0.726	1.58	0.947	0.537	1.55	1965
1966	0.395	0.284	0.211	10.2	3.45	4.43	5.45	0.439	1.26	0.832	1.09	0.292	2.36	1966
1967	0.129	0.088	0.070	12.6	2.85	0.833	0.340	0.112	0.012	0.255	0.398	0.109	1.46	1967
1968	0.053	0.048	0.100	1.80	1.03	1.07	1.39	2.51	1.64	1.13	0.808	0.239	0.895	1968
1969	0.133	0.207	0.238	8.08	0.929	0.806	1.22	0.551	0.235	0.501	0.410	0.243	1.12	1969
1970	0.188	0.088	0.093	7.78	3.13	2.38	0.688	0.157	0.286	0.400	0.986	0.184	1.35	1970
1971	0.028	0.088	0.252	8.44	0.815	0.768	0.373	0.227	0.120	0.596	0.721	0.384	1.06	1971
1972	0.106	0.054	0.333	4.58	1.11	0.607	0.112	0.210	0.214	0.487	0.828	0.072	0.868	1972
1973	0.052	0.048	1.34	1.20	1.08	1.48	1.04	0.751	1.04	3.07	1.34	0.348	1.07	1973
1974	0.100	0.127	0.193	18.2	8.88	1.80	0.358	0.208	0.178	0.268	0.159	0.105	2.47	1974
1975	0.110	0.142	0.177	1.37	1.50	2.47	1.50	0.128	0.112	0.210	0.172	0.107	0.888	1975
1976	0.088	0.078	0.104	2.68	0.842	2.02	0.388	0.030	0.008	0.083	0.088	0.004	0.484	1976
1977	0	0	0.058	1.33	0.441	0.667	0.483	0.111	1.55	1.18	0.743	0.527	0.550	1977
1978	0.212	0.180	0.181	11.7	2.87	0.718	0.378	0.074	0.104	0.154	0.138	0.086	1.38	1978
1979	0.027	0.018	0.025	10.3	1.98	2.44	0.163	0.118	0.228	0.134	0.180	0.083	1.29	1979
1980	0.088	0.078	0.088	2.78	0.882	0.128	0.038	0.048	0.174	0.874	0.288	0.073	0.484	1980
1981	0.018	0.114	0.527	0.787	0.850	0.616	0.332	0.227	0.283	1.78	0.787	0.467	0.550	1981
1982	0.090	0.035	0.128	2.22	2.30	1.82	1.20	0.872	0.123	1.62	1.04	0.535	1.01	1982
1983	0.048	0.123	0.814	5.34	0.578	0.518	0.808	0.224	0.128	0.228	0.212	0.085	0.734	1983
1984	0.026	0.018	0.181	1.11	0.852	1.27	0.388	0.084	0.008	0.268	0.271	0.188	0.382	1984
1985	0.088	0.027	1.34	1.82	0.555	0.898	0.495	1.12	0.570	1.19	0.807	0.188	0.744	1985
1986	0.118	0.222	1.98	4.08	---	---	---	---	---	---	---	---	---	1986
MEAN	0.114	0.085	0.883	7.12	3.70	2.88	1.17	0.808	1.17	1.25	0.894	0.243	1.49	MEAN

LOCATION - LAT 49 46 15 N DRAINAGE AREA, 1 100 km²
LONG 96 58 10 W REGULATED SINCE 1961

SEINE RIVER NEAR PRAIRIE GROVE - STATION NO. 05DH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	33.7 ON APR 8	---	---	1943
1944	---	49.6 ON SEP 7	0 B ON APR 1 *	---	1944
1945	---	50.4 ON MAR 28	---	---	1945
1946	---	39.1 ON MAR 25	0 B ON MAR 1	---	1946
1947	---	28.1 ON APR 17	---	---	1947
1948	---	39.1 ON APR 21	---	---	1948
1949	---	32.0 ON APR 12	0 B ON JAN 27	47 300	1949
1950	---	80.4 ON MAY 7	0.1028 ON MAR 7	181 000	1950
1951	---	23.8 B ON APR 6	0 B ON DEC 30	54 600	1951
1952	---	4.088 ON APR 8	0.0288 ON JAN 1	11 600	1952
1953	---	8.48 ON JUN 25	0.0288 ON FEB 12	27 500	1953
1954	---	25.2 ON JUN 18	0.0288 ON JAN 1	89 200	1954
1955	---	73.3 ON APR 8	0 ON SEP 16	80 500	1955
1956	---	36.8 B ON APR 22	0 B ON JAN 19	71 700	1956
1957	---	33.1 ON APR 26	0.0288 ON JAN 31	76 400	1957
1958	---	9.34 ON JUL 6	0 ON SEP 22	15 500	1958
1959	82.7 AT 08:00 CST ON JUN 15 *	77.8 ON JUN 15	0.0088 ON FEB 19	173 000	1959
1960	---	64.1 ON APR 15 *	0.023 ON SEP 22	89 500	1960
1961	---	6.038 ON MAR 28	0 B ON FEB 1	21 600	1961
1962	---	17.7 B ON APR 22	0 B ON JAN 17	28 300	1962
1963	---	12.2 B ON APR 8	0 B ON JAN 11	47 600	1963
1964	---	13.6 B ON APR 15	0.0118 ON MAR 24	36 200	1964
1965	---	26.0 B ON APR 14	0.0208 ON MAR 14	48 000	1965
1966	---	23.4 A ON JUL 4	0.1058 ON DEC 30	74 400	1966
1967	38.2 AT 03:30 CST ON APR 22	34.6 ON APR 22	0 B ON MAR 22	46 700	1967
1968	8.48 ON AUG 25	8.38 ON AUG 25	0.0178 ON JAN 6	31 600	1968
1969	---	34.8 ON APR 12	0.0178 ON FEB 11	35 400	1969
1970	---	27.8 B ON APR 15	0.0348 ON FEB 15	42 600	1970
1971	---	26.6 B ON APR 10	0.0148 ON FEB 8	33 300	1971
1972	---	18.3 B ON APR 16	0.0088 ON JAN 26	21 600	1972
1973	---	7.38 ON OCT 14	0.0458 ON FEB 1	33 800	1973
1974	64.0 B AT 08:00 CST ON APR 14	60.8 ON APR 15	0.0578 ON DEC 11	77 800	1974
1975	14.6 AT 15:48 CST ON JUN 23	14.1 ON JUN 23	0.048 ON SEP 26	22 000	1975
1976	---	15.6 B ON APR 8	0 ON SEP 5	15 800	1976
1977	8.51 AT 08:45 CST ON SEP 27	8.46 ON SEP 27	0 B ON JAN 1	16 800	1977
1978	28.9 B AT 04:51 CST ON APR 11	28.6 B ON APR 11	0.022 ON SEP 11	43 800	1978
1979	56.3 B AT 01:40 CST ON APR 21	56.4 B ON APR 20	0.0128 ON MAR 13	40 800	1979
1980	11.6 B AT 04:56 CST ON APR 8	11.4 B ON APR 8	0 ON JUL 16	12 800	1980
1981	2.50 AT 17:00 CST ON OCT 17	2.43 ON OCT 17	0 B ON JAN 17	17 300	1981
1982	10.2 B AT 08:50 CST ON APR 15	9.838 ON APR 15	0.0088 ON FEB 11	31 900	1982
1983	20.4 B AT 04:58 CST ON APR 7	19.6 B ON APR 7	0.0068 ON MAR 25	23 100	1983
1984	5.05 AT 15:12 CST ON JUN 18	4.46 ON JUN 18	0 A ON SEP 23	12 100	1984
1985	7.78 AT 18:56 CST ON AUG 24	7.47 ON AUG 24	0.0018 ON FEB 19	23 500	1985
1986	28.8 B AT 21:12 CST ON MAR 31	26.0 B ON APR 1	---	---	1986
				47 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER NEAR STE. ANNE - STATION NO. 05DH007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	5.87	4.58	2.13	0.389	0.068	0.158	1.81	---	---	1.83	1984
1985	---	---	0	8.20	5.92	2.43	2.09	0.180	0.783	2.22	---	---	2.58	1985
1986	---	---	0.015	10.8	12.4	4.23	0.88	0.348	1.80	0.540	---	---	4.93	1986
1987	---	---	1.58	29.6	8.67	0.834	0.258	0.128	0.020	0.118	---	---	4.84	1987
1988	---	---	0.887	2.09	2.87	1.81	1.10	0.826	1.31	0.982	---	---	1.50	1988
1989	---	---	0.270	7.74	2.88	1.85	1.06	0.527	0.243	0.880	---	---	1.84	1989
1970	---	---	0.110	7.87	13.2	5.78	0.831	0.088	0.102	0.320	---	---	3.46	1970
1971	---	---	0.185	4.28	2.48	0.852	0.418	0.215	0.107	0.824	---	---	1.15	1971
1972	---	---	0.316	8.07	2.74	0.474	0.092	0.237	0.247	0.430	---	---	1.31	1972
1973	---	---	1.57	1.54	1.38	1.80	0.853	0.427	0.973	3.81	---	---	1.48	1973
1974	---	---	0.184	19.5	16.2	3.89	0.030	0.093	0.143	0.248	---	---	4.87	1974
1975	---	---	0.142	1.28	3.33	2.83	2.75	0.188	0.084	1.31	---	---	1.48	1975
1976	---	---	0.217	3.45	1.09	1.03	0.418	0.007	0.007	0.035	---	---	0.773	1976
1977	---	---	0.224	0.618	0.461	0.541	0.217	0.070	0.709	0.828	---	---	0.488	1977
1978	---	---	0.158	8.76	3.30	0.801	0.286	0.059	0.054	0.062	---	---	1.78	1978
1979	---	---	0.095	5.88	4.84	2.09	0.151	0.138	0.180	0.152	---	---	1.88	1979
1980	---	---	0.070	2.32	0.488	0.131	0.078	0.038	0.182	0.278	---	---	0.441	1980
1981	---	---	0.244	0.578	0.559	0.833	0.250	0.134	0.331	1.25	---	---	0.487	1981
1982	---	---	0.187	5.21	2.20	3.12	2.61	1.00	0.198	1.86	---	---	2.00	1982
1983	---	---	1.60	7.88	2.08	1.35	1.37	0.200	0.102	0.195	---	---	1.82	1983
1984	---	---	0.538	0.888	0.878	5.24	0.618	0.068	0.004	0.078	---	---	1.03	1984
1985	---	---	1.22	1.18	1.81	0.833	0.377	0.460	0.432	1.08	---	---	0.820	1985
1986	---	---	2.15	8.77	10.2	0.602	0.388	0.134	0.188	0.478	---	---	2.83	1986
1987	---	---	1.14	5.88	0.858	0.288	0.241	0.103	0.038	0.188	---	---	1.08	1987
1988	---	---	0.024	0.788	0.441	0.181	0.089	0.015	0	0.021	---	---	0.181	1988
MEAN	---	---	0.618	6.31	4.11	1.79	1.06	0.232	0.328	0.780	---	---	1.88	MEAN

LOCATION - LAT 49 39 10 N, LONG 98 37 00 W DRAINAGE AREA, 698 km^2, NATURAL FLOW

SEINE RIVER NEAR STE. ANNE - STATION NO. 05OH007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1984	---	25.7 B ON APR 18	0 B ON MAR 1 *	38 700	1984
1985	---	27.8 ON APR 15	0 B ON MAR 1	84 800	1985
1986	---	44.7 ON JUL 4	0 B ON MAR 1	105 000	1986
1987	---	98.3 ON APR 22 *	0 B ON MAR 1	102 000	1987
1988	7.67 AT 12:00 CST ON MAY 20	7.53 ON MAY 19	0 B ON MAR 1	31 800	1988
1989	---	20.8 ON APR 12	0.102 ON SEP 4	39 500	1989
1970	23.5 AT 11:20 CST ON JUN 1	23.0 ON JUN 1	0.017 ON SEP 24	73 200	1970
1971	---	8.138 ON APR 8	0.031 ON SEP 15	24 300	1971
1972	---	19.7 B ON APR 16	0 ON AUG 4	27 600	1972
1973	---	8.82 ON OCT 15	0 ON AUG 31	31 800	1973
1974	80.0 AT 02:40 CST ON APR 22 *	58.9 ON APR 22	0.003E ON JUL 22	105 000	1974
1975	16.9 AT 03:25 CST ON JUL 2	16.5 ON JUL 2	0.012 ON SEP 17	31 400	1975
1976	---	5.688 ON APR 7	0 ON AUG 8	16 400	1976
1977	3.008 AT 09:40 CST ON MAR 31	2.35 ON SEP 26	0.0088 ON MAR 1	9 910	1977
1978	24.2 B AT 10:04 CST ON APR 12	21.2 B ON APR 12	0.015 ON SEP 11	37 300	1978
1979	34.1 B AT 09:23 CST ON APR 19	29.1 B ON APR 19	0.0808 ON MAR 16	35 100	1979
1980	10.4 B AT 11:15 CST ON APR 7	9.188 ON APR 7	0 ON JUL 31	9 320	1980
1981	2.00 AT 02:45 CST ON OCT 15	1.93 ON OCT 15	0.0198 ON MAR 5	10 500	1981
1982	22.6 AT 16:30 CST ON APR 16	18.6 B ON APR 16	0.0448 ON MAR 1	42 300	1982
1983	---	27.0 B ON APR 2	0.073 ON SEP 19	38 500	1983
1984	15.5 AT 12:16 CST ON JUN 12	15.3 ON JUN 12	0.0038 ON MAR 1	21 700	1984
1985	4.408 AT 23:37 CST ON MAR 24	4.018 ON MAR 25	0.119 ON AUG 2	19 500	1985
1986	24.8 AT 10:52 CST ON MAR 31	23.7 ON MAY 3	0.034E ON SEP 4	59 800	1986
1987	---	9.27A ON APR 10	0.004 ON SEP 18	22 800	1987
1988	---	3.008 ON APR 5	0 B ON MAR 1	4 040	1988
				39 700	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO. 05OH009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	---	---	---	---	---	0.470	0.401	0.172	0.172	0.254	---	---	---	1986
1987	---	---	0.618	5.08	0.945	0.418	0.340	0.343	0.063	0.218	---	---	---	1987
1988	---	---	0.100	1.18	0.485	0.126	0.088	0.005	0	0.029	---	---	---	1988
MEAN	---	---	0.459	3.13	0.720	0.338	0.242	0.173	0.075	0.167	---	---	---	MEAN

LOCATION - LAT 49 46 15 N
LONG 96 57 27 W
REGULATED SINCE 1961

SEINE RIVER SOUTH OF PRAIRIE GROVE - STATION NO. 05OH009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	---	---	0.038 ON OCT 11 *	---	1986
1987	---	---	---	---	1987
1988	---	---	---	---	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

SHANNON CREEK NEAR WORDEN - STATION NO. 05OF021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	0	6.88	4.72	0.486	0.168	0.023	0.027	0.022	---	---	1.83	1970
1971	---	---	0	5.88	0.429	0.320	0.071	0.012	0.017	0.138	---	---	0.883	1971
1972	---	---	1.16	1.83	0.551	0.088	0.002	0.006	0	0	---	---	0.483	1972
1973	---	---	0.272	0.014	0.006	0	0.003	0	0	0.551	---	---	0.037	1973
1974	---	---	0	9.26	5.14	0.790	0.083	0.001	0.001	0.064	---	---	2.02	1974
1975	---	---	B	0.839	0.385	0.387	0.074	0	0	B	---	---	0.220	1975
1976	---	---	0	3.74	0.214	0.084	0.002	0	0	B	---	---	0.483	1976
1977	---	---	B	0.002	0.188	0.078	0	0	0.320	0.022	---	---	0.073	1977
1978	---	---	0.004	2.10	0.521	0.382	0.088	0.010	0.088	B	---	---	0.391	1978
1979	---	---	0	6.88	2.88	0.928	0.223	0	0	B	---	---	1.32	1979
1980	---	---	0	0.325	0.001	0	0.013	B	0	0	---	---	0.042	1980
1981	---	0.188	0.088	0.008	0.010	0.008	0	B	0	0	---	---	0.012	1981
1982	---	---	0.188	0.471	0.003	0.080	0	B	0	0.047	---	---	0.085	1982
1983	---	---	0.395	1.07	0.158	0.078	0.041	B	0	0	---	---	0.218	1983
1984	---	---	0.123	0.088	0.118	0.001	0	B	0	0	---	---	0.041	1984
1985	---	---	1.06	0.332	0.042	B.048	B.022	1.15	0.211	B.138	---	---	B.378	1985
1986	---	---	1.18	1.34	2.88	0.205	0.076	0.008	0	B	---	---	B.587	1986
1987	---	---	0.480	2.28	0.010	B.008	B.012	0.018	0	B	---	---	0.343	1987
MEAN	---	0.188	0.272	2.41	1.05	0.218	0.048	0.088	0.037	0.031	---	---	0.512	MEAN

LOCATION - LAT 49 18 10 N
LONG 97 58 40 W
DRAINAGE AREA, 281 km^2
NATURAL FLOW

REMARKS - WATER LEVELS OBTAINED NEAR KRONSGART IN 1922, 24, 26-30. 1981 MAX AND MIN DAILY DISCHARGE OF 1.38 AND 0 OCCURRED IN FEB

SHANNON CREEK NEAR MORDEN - STATION NO. 05OF021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1970	42.2 AT 11:35 CST ON APR 26	28.1 ON APR 26	05 ON MAR 1 *	32 300	1970
1971	65.1 B AT 08:53 CST ON APR 10 *	48.7 B ON APR 10	05 ON MAR 1	18 000	1971
1972	---	9.34 B ON MAR 18	05 ON MAR 1	8 610	1972
1973	---	1.02 B ON MAR 12	05 ON MAR 1	787	1973
1974	---	72.2 ON MAY 21 *	05 ON MAR 1	42 500	1974
1975	4.11 AT 18:54 CST ON APR 29	3.60 B ON APR 14	05 ON MAR 1	4 850	1975
1976	18.5 AT 20:19 CST ON APR 5	13.1 B ON APR 4	05 ON MAR 1	10 400	1976
1977	3.34 AT 08:26 CST ON SEP 26	3.00 ON SEP 26	05 ON MAR 1	1 540	1977
1978	---	9.88 B ON APR 8	05 ON MAR 1	8 270	1978
1979	---	58.4 B ON APR 20	05 ON MAR 1	27 800	1979
1980	---	1.20 B ON APR 8	05 ON MAR 1	850	1980
1981	---	0.1398 ON MAR 18	0 ON APR 12	258	1981
1982	---	2.83 B ON MAR 31	05 ON MAR 1	2 010	1982
1983	5.81 AT 12:13 CST ON APR 5	4.81 ON APR 5	05 ON MAR 1	4 550	1983
1984	---	1.14 B ON MAR 27	05 ON MAR 1	877	1984
1985	10.4 AT 03:00 CST ON AUG 18	9.39 ON AUG 18	05 ON MAR 1	8 000	1985
1986	15.4 AT 10:15 CST ON MAY 12	11.7 ON MAY 12	05 ON MAR 1	14 500	1986
1987	10.2 B AT 18:59 CST ON APR 5	9.46 B ON APR 5	05 ON MAR 1	7 280	1987
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 800	MEAN

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0.084	11.2	0.713	0.128	0.063	0	0	0	---	---	1.50	1980
1981	---	---	1.47	0.889	0.020	0	0.002	0	0	0	---	---	0.287	1981
1982	---	---	0	5.76	2.08	0.955	0.082	0.032	0	0	---	---	1.22	1982
1983	---	---	0.282	0.335	0.001	2.91	0.087	0.004	0.001	0	---	---	0.447	1983
1984	---	---	0	2.37	0.128	0.153	0.039	0.093	0.231	0.032	---	---	0.374	1984
1985	---	---	0	10.8	1.24	0.253	0.054	0	0	0	---	---	1.52	1985
1986	---	---	4.57	3.94	0.319	0.035	4.01	0	0	0	---	---	1.81	1986
1987	---	---	0	14.1	1.67	0.126	0.027	0	0	0	---	---	1.98	1987
1988	---	---	1.38	0.478	0.404	0.074	0.189	3.70	1.84	0.357	---	---	1.03	1988
1989	---	---	0	10.4	0.832	0.524	1.86	0.090	0.035	0.047	---	---	1.86	1989
1970	---	---	0	15.4	9.70	1.24	0.448	0.118	0.031	0.008	---	---	3.35	1970
1971	---	---	0	12.2	0.413	0.341	0.090	0	0	0.087	---	---	1.81	1971
1972	---	---	2.09	4.87	0.529	0.118	0.409	0.218	0.088	0.034	---	---	1.01	1972
1973	---	---	0.508	0.078	0.008	0.008	0.010	0.038	0.003	0.010	---	---	0.088	1973
1974	---	---	0	21.3	11.3	0.885	0.143	0.001	0.018	0	---	---	4.17	1974
1975	---	---	0	1.88	0.870	0.408	0.353	0	0	0	---	---	0.385	1975
1976	---	---	0	8.56	0.231	0.094	0	0	0	0	---	---	1.08	1976
1977	---	---	0	0.154	0.068	0.010	0.025	0	0.225	0.240	---	---	0.080	1977
1978	---	---	0.008	5.84	0.508	0.103	0.022	0	0.027	0.009	---	---	0.800	1978
1979	---	---	0	---	---	---	0.244	0.018	0	0	---	---	---	1979
1980	---	---	0	0.877	0.008	0	0	0	0	0	---	---	0.120	1980
1981	---	---	0.341	0.088	0.185	0.025	0.007	0.085	0	0	---	---	0.088	1981
1982	---	---	0.228	2.70	0.005	0.078	0	0	0	0.001	---	---	0.363	1982
1983	---	---	0.838	5.84	0.087	0.008	0.004	0	0	0	---	---	0.805	1983
1984	---	---	0.187	0.207	0.058	0.128	0.004	0	0	0	---	---	0.072	1984
1985	---	---	5.52	0.872	0.117	0.003	0.150	1.82	0.337	0.232	---	---	1.13	1985
1986	---	---	5.51	3.74	0.30	0.124	0.041	0.008	0	0	---	---	2.23	1986
1987	---	---	0	9.95	0.041	0.002	0	0.003	0.017	0	---	---	1.23	1987
1988	---	---	0.123	0.587	0	0	0	0	0	0	---	---	0.085	1988
MEAN	---	---	0.805	5.58	1.41	0.309	0.278	0.218	0.091	0.037	---	---	1.08	MEAN

LOCATION - LAT 49 21 17 N DRAINAGE AREA, 526 km^2
LONG 97 26 18 W NATURAL FLOW

SHANNON CREEK NEAR MORRIS - STATION NO. 05OF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	45.3 ON APR 7	0B ON MAR 1 *	31 800	1980
1981	---	8.248 ON MAR 25	0B ON MAR 1	6 280	1981
1982	---	42.8 B ON APR 21	0 ON MAR 1	25 900	1982
1983	---	21.3 ON JUN 5	0B ON MAR 1	9 450	1983
1984	---	11.0 B ON APR 11	0B ON MAR 1	7 930	1984
1985	---	47.6 B ON APR 13	0B ON MAR 1	32 100	1985
1986	---	47.3 B ON APR 1	0B ON MAR 1	34 000	1986
1987	---	91.7 B ON APR 21	0B ON MAR 1	41 500	1987
1988	---	24.4 ON AUG 27	0B ON MAR 1	21 800	1988
1989	---	54.1 B ON APR 12	0B ON MAR 1	35 100	1989
1970	---	45.9 ON APR 30	0B ON MAR 1	70 800	1970
1971	---	116 ON APR 11	0B ON MAR 1	34 000	1971
1972	---	15.2 B ON APR 15	0B ON MAR 1	21 400	1972
1973	---	2.088 ON MAR 21	0B ON MAR 1	2 030	1973
1974	---	126 ON APR 18 *	0B ON MAR 1	88 200	1974
1975	---	8.77 ON APR 29	0B ON MAR 1	8 150	1975
1976	---	58.9 B ON APR 6	0B ON MAR 1	23 100	1976
1977	2.13 AT 23:58 CST ON SEP 26	1.95 ON SEP 26	0B ON MAR 1	1 890	1977
1978	---	22.7 B ON APR 9	0B ON MAR 1	16 900	1978
1979	---	---	0B ON MAR 1	---	1979
1980	---	5.178 ON APR 7	0B ON MAR 1	2 550	1980
1981	3.67 AT 12:35 CST ON MAY 25	2.41 ON MAY 25	0B ON MAR 1	1 810	1981
1982	---	11.3 B ON APR 13	0B ON MAR 1	1 690	1982
1983	---	18.5 ON APR 6	0B ON MAR 1	17 000	1983
1984	---	1.838 ON MAR 29	0B ON MAR 1	1 530	1984
1985	---	28.2 B ON MAR 18	0B ON MAR 1	23 900	1985
1986	50.4 AT 04:51 CST ON MAY 13	40.2 ON MAY 13	0B ON MAR 1	47 000	1986
1987	121 B AT 11:45 CST ON APR 6 *	83.0 B ON APR 6	0B ON MAR 1	26 000	1987
1988	---	4.458 ON APR 4	0 ON MAY 3	1 800	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		22 900	MEAN

SHANNON CREEK NEAR WINKLER - STATION NO. 05OF022

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1988	---	---	0.060	0.130	0	0	0	0	0	0	---	---	0.024	1988
MEAN	---	---	0.060	0.130	0	0	0	0	0	0	---	---	0.024	MEAN

LOCATION - LAT 49 16 55 N DRAINAGE AREA, 308 km^2
LONG 97 52 15 W NATURAL FLOW

SHANNON CREEK NEAR WINKLER - STATION NO. 05OF022

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1988	---	0.8308 ON APR 3 *	0B ON MAR 1 *	498	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		498	MEAN

SHELL RIVER AT ASSESSIPPI - STATION NO. 05MD001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1914	---	---	---	---	---	7.88	2.95	1.49	1.88	1.84	1.78	1.03	---	1914
1915	0.462	0.293	0.488	3.76	2.80	2.95	3.53	1.58	1.79	2.76	1.89	0.850	1.94	1915
1916	1.13	0.850	0.708	18.9	10.2	11.4	7.88	2.50	2.88	4.65	3.54	1.70	5.50	1916
1917	0.827	0.824	0.971	3.33	20.6	13.8	18.3	4.19	3.18	1.84	2.48	1.04	5.98	1917
1918	0.883	1.07	1.99	7.82	4.98	8.47	10.6	5.80	3.68	3.18	2.13	1.61	4.22	1918
1919	1.46	1.20	0.864	8.60	10.4	4.70	10.9	3.75	4.81	3.88	2.08	1.15	4.61	1919
1920	1.12	1.01	1.22	9.70	39.7	14.4	5.05	2.48	2.01	---	---	---	---	1920
1921	---	---	---	8.02	13.3	23.1	18.6	11.9	8.92	8.98	---	---	---	1921
MEAN	0.897	0.875	1.04	8.62	14.6	10.6	9.45	4.21	3.34	3.82	2.34	1.23	4.43	MEAN

LOCATION - LAT 50 55 50 N DRAINAGE AREA, 2 000 km^2
LONG 101 19 00 W NATURAL FLOW

SHELL RIVER AT ASSESSIPPI - STATION NO. 05MD001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1914	---	---	---	---	1914
1915	---	8.68 ON APR 18	0.2838 ON FEB 5 *	61 300	1915
1916	---	36.5 B ON APR 19	0.7088 ON MAR 1	174 000	1916
1917	---	33.7 ON JUL 13	0.6388 ON DEC 13	189 000	1917
1918	---	21.8 ON JUL 4	0.7388 ON JAN 11	133 000	1918
1919	---	16.4 ON JUL 9	0.7658 ON MAR 4	142 000	1919
1920	---	72.2 ON MAY 14 *	---	---	1920
1921	---	41.9 ON JUN 25	---	---	1921
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		140 000	MEAN

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1920	---	---	---	---	---	---	---	---	---	1.36	1.50	1.13	---	1920
1921	0.884	0.726	0.828	5.95	11.7	18.0	13.7	10.8	6.31	6.31	6.47	3.41	7.17	1921
1922	1.82	1.33	1.68	21.6	45.0	12.4	5.65	3.12	3.02	2.32	3.09	1.95	8.63	1922
1923	1.73	1.22	1.23	9.01	25.3	14.8	8.18	4.17	2.17	2.46	2.28	1.29	6.18	1923
1924	0.908	0.152	0.222	1.68	8.09	8.71	3.69	7.84	3.44	4.23	2.62	1.39	3.38	1924
1925	1.17	1.23	1.88	18.2	8.08	11.8	8.46	5.15	2.30	2.72	2.58	1.29	5.22	1925
1926	1.05	1.04	1.56	14.3	7.07	5.23	2.25	1.88	2.69	5.11	3.68	1.57	3.97	1926
1927	1.01	0.881	1.08	8.33	22.1	11.0	8.69	4.79	4.38	3.90	---	---	---	1927
1928	---	---	---	---	9.24	8.30	6.95	4.00	2.14	2.11	---	---	---	1928
1929	---	---	---	---	5.43	3.93	2.21	1.19	1.04	1.31	---	---	---	1929
1930	---	---	---	---	3.79	3.79	2.30	1.43	1.33	1.26	---	---	---	1930
1931	---	---	---	---	2.00	1.57	1.36	0.859	1.20	1.11	---	---	---	1931
1932	---	---	---	---	2.58	1.72	3.28	1.26	1.29	1.68	---	---	---	1932
MEAN	1.15	0.954	1.21	11.3	12.5	8.35	5.56	3.88	2.63	2.76	3.14	1.72	5.76	MEAN

LOCATION - LAT 51 10 10 N DRAINAGE AREA, 1 880 km^2
LONG 101 19 40 W NATURAL FLOW

SHELL RIVER NEAR DUCK LAKE - STATION NO. 05MD002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1920	---	---	---	---	1920
1921	---	35.7 ON JUN 25	0.8518 ON JAN 1	226 000	1921
1922	---	63.4 ON MAY 7 *	1.27 B ON FEB 16	272 000	1922
1923	---	47.9 ON MAY 6	0.8838 ON DEC 31	196 000	1923
1924	---	18.2 ON JUN 21	0.1138 ON FEB 20 *	107 000	1924
1925	---	32.3 ON APR 17	1.13 B ON JAN 1	155 000	1925
1926	---	33.2 ON APR 22	0.8638 ON JAN 23	128 000	1926
1927	---	37.1 ON MAY 4	---	---	1927
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		162 000	MEAN

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	---	29.6	8.18	11.5	6.38	2.81	2.07	---	---	---	1948
1949	---	---	---	---	5.19	2.97	4.70	2.44	2.34	1.25	1.15	1.28	---	---	1949
1950	---	---	---	---	---	9.85	6.62	5.71	3.44	1.29	2.22	---	---	---	1950
1951	---	---	---	---	8.21	17.7	4.38	3.73	2.79	5.02	5.68	---	---	---	1951
1952	---	---	---	---	10.3	5.84	3.66	1.82	1.14	1.81	2.01	---	---	---	1952
1953	---	---	---	---	8.52	9.02	10.6	19.5	5.26	5.53	4.52	5.35	---	---	1953
1954	---	---	---	---	8.82	15.0	30.2	14.0	3.23	5.23	8.73	4.27	---	---	1954
1955	---	---	---	---	18.8	17.5	7.55	4.32	1.43	1.05	1.46	---	---	---	1955
1956	---	---	---	1.08	4.78	14.4	6.52	7.13	2.76	2.47	1.95	1.76	1.33	---	1956
1957	1.35	1.07	0.930	8.16	16.1	3.82	2.08	1.40	1.17	1.31	1.36	0.886	3.32	1957
1958	0.419	0.389	0.748	4.02	2.21	1.58	1.01	0.587	1.16	1.58	1.79	0.886	1.35	1958
1959	0.873	0.446	1.51	5.48	6.04	4.38	8.25	1.09	1.41	2.68	2.47	1.72	2.77	1959
1960	0.805	1.03	1.08	10 6	8.83	9.59	2.03	0.852	0.343	0.526	1 02	0.583	3.07	1960
1961	0.728	0.841	0.503	1.46	1.38	0.780	0.407	0.143	0.122	0.323	0 829	0.687	0.880	1961
1962	0.822	1.02	1.03	2.33	2.45	1.33	0.321	0.386	0.477	0.847	0.896	0.388	1.02	1962
1963	0.227	0.238	0.815	5.08	4.74	2.32	1.48	0.701	0.637	0.849	0.798	0.824	1.54	1963
1964	0.583	0.555	0.555	4.94	4.07	1.28	0.812	0.802	0.471	0.735	0.558	0.018	1.24	1964
1965	0.001	0	0	5.69	8.14	5.17	2.06	1.84	1.80	3.18	1.43	0.874	2.86	1965
1966	0.849	0.872	1.07	8.71	12.1	7.57	5.20	1.38	0.578	0.808	0.888	0.780	3.51	1966
1967	0.780	0.861	0.716	1.87	9.18	5.21	1.82	0.830	0.284	0.584	0.804	0.888	1.82	1967
1968	0.859	0.893	1.38	4.57	2.24	1.25	1.02	1.08	0.908	0.910	0.945	0.854	1.38	1968
1969	0.789	0.826	1.05	5.03	3.18	1.82	2.11	2.08	0.941	2.21	1.82	0.993	1.88	1969
1970	0.785	0.814	0.807	7.13	18.7	3.71	2.77	3.55	0.824	1.28	5 52	1.77	4.08	1970
1971	1.18	1.08	0.935	15.4	7.84	4.27	2.78	1.88	0.588	1.32	1.48	1.11	3.33	1971
1972	1.18	1.08	1.10	11.3	18.0	3.45	2.89	1.00	0.855	0.891	0.918	0.578	3.40	1972
1973	0.282	0.277	0.758	4.68	2.29	3.30	3.80	1.01	1.89	1.75	1.47	1.22	1.88	1973
1974	0.871	0.788	0.902	15.4	23.8	10.2	2.71	1.40	1.83	2.85	1.76	1.12	5.30	1974
1975	1.10	1.04	1.10	7.58	17.7	10.4	3.47	1.41	1.80	2.89	2.76	1.18	4.40	1975
1976	1.08	1.26	1.11	18.4	7.11	24.7	9.34	1.90	0.935	1.01	0.823	0.489	5.84	1976
1977	0.384	0.497	0.523	5.03	3.24	1.88	2.07	1.50	3.40	4.24	2.30	1.35	2.18	1977
1978	1.09	0.745	1.34	8.38	6.88	3.45	1.57	0.588	0.818	1.39	1.41	0.782	2.21	1978
1979	0.523	0.489	0.588	11.8	21.7	11.9	2.09	0.782	0.902	0.835	1.56	0.805	4.51	1979
1980	0.745	0.753	0.889	8.22	3.29	1.02	0.832	0.887	0.888	1.18	1.23	0.530	1.70	1980
1981	0.338	0.423	2.97	4.37	2.86	1.95	1.44	0.887	0.585	1.29	1.33	0.504	1.56	1981
1982	0.217	0.371	0.373	4.96	3.87	1.88	4.10	2.48	0.492	1.20	1.34	0.889	1.84	1982
1983	0.819	0.831	0.748	7.59	12.2	7.85	6.34	1.83	0.714	1.28	1.56	0.983	3.56	1983
1984	0.588	0.707	4.64	7.93	7.39	8.47	5.83	0.787	0.788	2.24	1.20	2.00	3.38	1984
1985	1.14	0.854	1.03	11.5	6.36	4.55	2.30	4.34	2.50	3.15	1.84	1.40	3.41	1985
1986	1.52	1.19	1.98	12.6	10.1	3.55	2.56	1.58	0.741	3.12	1.67	1.22	3.48	1986
1987	1.07	0.765	0.981	12.3	3.32	3.08	4.13	1.90	1.00	1.84	2.01	1.51	2.83	1987
1988	0.882	0.720	0.709	13.6	27.7	4.33	1.67	0.811	0.420	0.724	0.741	0.873	4.41	1988
MEAN	0.784	0.725	1.09	8.07	9.86	5.82	3.88	1.80	1.41	1.92	1.72	0.931	2.78	MEAN

LOCATION - LAT 50 57 40 N DRAINAGE AREA, 2 000 km²
LONG 101 19 05 W NATURAL FLOW

SHELL RIVER NEAR INGLIS - STATION NO. 05MD005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	43.8 ON MAY 1	---	---	1948
1949	---	8.678 ON APR 7	---	---	1949
1950	---	---	---	---	1950
1951	---	34.3 ON MAY 9	---	---	1951
1952	---	16.5 ON APR 23	---	---	1952
1953	---	43.8 ON JUL 6	---	---	1953
1954	---	42.2 ON JUN 24	---	---	1954
1955	---	26.3 ON MAY 14	---	---	1955
1956	---	20.2 ON MAY 12	---	---	1956
1957	---	28.1 ON MAY 8	0.6808 ON DEC 30	105 000	1957
1958	---	7.658 ON APR 9	0.2638 ON JAN 25	42 400	1958
1959	---	10.1 ON MAY 9	0.3118 ON FEB 10	87 800	1959
1960	---	21.5 ON APR 15	0.1988 ON SEP 30	97 000	1960
1961	---	2.758 ON APR 15	0.020 ON SEP 5	20 800	1961
1962	---	6.87 ON APR 24	0.227 ON JUL 27	32 200	1962
1963	---	8.72E ON MAY 17	0.1478 ON JAN 11	48 700	1963
1964	---	11.6 B ON APR 12	0.0038 ON DEC 27	39 000	1964
1965	---	14.0 ON MAY 6	0 B ON JAN 8 *	83 900	1965
1966	---	18.5 A ON MAY 14	0.436 ON SEP 25	111 000	1966
1967	---	11.2 A ON MAY 12	0.167 ON SEP 12	60 800	1967
1968	---	7.628 ON APR 12	0.8528 ON DEC 17	42 900	1968
1969	---	15.1 A ON APR 19	0.612A ON SEP 18	89 300	1969
1970	29.4 AT 19:38 CST ON MAY 15	28.0 ON MAY 15	0.303 ON SEP 20	128 000	1970
1971	30.3 AT 19:45 CST ON APR 28	30.0 ON APR 28	0.478 ON SEP 22	105 000	1971
1972	27.8 AT 08:31 CST ON MAY 7	27.7 ON MAY 7	0.3898 ON DEC 31	108 000	1972
1973	---	7.838 ON APR 11	0.2488 ON JAN 20	59 500	1973
1974	46.4 AT 06:02 CST ON APR 24	43.3 ON APR 24	0.7788 ON FEB 12	167 000	1974
1975	26.3 AT 05:04 CST ON MAY 7	26.0 ON MAY 6	0.8508 ON DEC 15	138 000	1975
1976	---	88.8 E ON JUN 22 *	0.4138 ON DEC 31	178 000	1976
1977	19.5 AT 15:38 CST ON APR 17	16.6 ON APR 17	0.3238 ON JAN 23	68 800	1977
1978	12.6 AT 09:47 CST ON APR 23	12.4 ON APR 26	0.386 ON AUG 12	69 500	1978
1979	45.8 AT 23:07 CST ON MAY 23	44.8 ON MAY 24	0.269 ON OCT 5	142 000	1979
1980	13.08 AT 23:10 CST ON APR 12	11.8 ON APR 21	0.358 ON AUG 2	53 900	1980
1981	---	8.93E ON APR 2	0.3108 ON DEC 31	49 300	1981
1982	13.7 AT 01:24 CST ON JUL 25	13.1 ON JUL 24	0.1888 ON JAN 31	58 100	1982
1983	---	22.1 A ON APR 24	0.454 ON SEP 29	112 000	1983
1984	17.6 AT 14:58 CST ON JUL 4	17.7 ON JUL 4	0.050 ON SEP 6	107 000	1984
1985	22.6 AT 00:13 CST ON APR 14	18.3 ON APR 17	0.8088 ON FEB 25	108 000	1985
1986	20.08 AT 22:40 CST ON APR 7	18.3 ON APR 8	0.4868 ON MAR 21	110 000	1986
1987	32.18 AT 00:00 CST ON APR 5	24.6 B ON APR 5	0.1918 ON FEB 23	89 200	1987
1988	67.4 AT 15:00 CST ON MAY 9 *	58.5 A ON MAY 9	0.1578 ON JAN 9	140 000	1988
				88 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	---	---	---	---	---	---	---	---	---	0.583	---	1982
1983	0.418	0.303	0.375	2.42	2.87	1.37	0.828	0.429	0.402	0.521	0.480	0.308	1.71	1983
1984	0.301	0.253	0.227	2.21	2.87	0.585	0.365	0.338	0.319	0.922	0.709	0.180	1.47	1984
1985	0.082	0.088	0.143	3.85	7.50	4.75	1.45	1.19	1.26	2.14	0.883	0.880	4.08	1985
1986	0.718	0.829	0.849	5.80	10.5	5.50	4.37	0.713	0.358	0.842	0.588	0.588	5.85	1986
1987	0.590	0.441	0.341	2.00	7.51	3.65	0.887	0.470	0.235	0.441	0.502	0.478	3.38	1987
1988	0.534	0.510	0.842	2.49	1.13	0.958	0.788	0.838	0.534	0.879	0.638	0.857	1.30	1988
1989	0.908	0.812	0.922	4.84	2.06	1.32	1.78	1.28	0.456	2.14	1.22	0.711	2.18	1989
1970	0.585	0.534	0.523	3.22	16.8	3.09	2.89	2.35	0.508	1.41	3.72	1.25	5.94	1970
1971	0.873	0.858	0.800	13.5	4.88	2.68	2.04	1.68	0.370	0.822	1.33	1.13	5.38	1971
1972	0.818	0.724	0.777	8.87	13.8	1.97	1.97	0.580	0.400	0.813	0.523	0.447	5.85	1972
1973	0.204	0.173	0.783	2.21	1.81	2.36	2.76	0.874	1.13	1.28	1.08	1.01	1.78	1973
1974	0.808	0.490	0.888	9.35	18.8	7.88	1.82	0.934	1.23	2.07	1.30	0.928	8.23	1974
1975	0.788	0.640	0.850	8.14	15.7	8.81	2.67	0.948	1.20	2.18	2.04	0.984	7.91	1975
1976	0.742	0.778	0.881	12.7	4.72	18.8	5.80	1.27	0.829	0.745	0.809	0.413	8.12	1976
1977	---	---	0.483	2.87	2.17	1.08	---	---	---	---	---	---	1.84	1977
1978	---	---	0.845	4.28	3.89	1.75	---	---	---	---	---	---	2.89	1978
1979	---	---	0.575	5.21	19.7	8.84	---	---	---	---	---	---	8.55	1979
1980	---	---	0.887	5.35	1.84	0.888	---	---	---	---	---	---	2.12	1980
1981	---	---	1.30	2.87	1.72	1.48	---	---	---	---	---	---	1.78	1981
1982	---	---	0.194	2.91	2.28	1.12	---	---	---	---	---	---	1.62	1982
1983	---	---	0.808	4.18	10.0	5.97	4.55	---	---	---	---	---	5.20	1983
1984	---	---	1.28	5.20	7.38	7.00	---	---	---	---	---	---	5.20	1984
1985	---	---	0.885	8.29	4.87	3.81	---	---	---	---	---	---	4.48	1985
1986	---	---	1.02	10.7	8.31	2.38	---	---	---	---	---	---	5.58	1986
1987	---	---	1.86	8.12	2.48	2.84	---	---	---	---	---	---	3.72	1987
1988	---	---	0.767	13.2	27.7	3.88	1.28	---	---	---	---	---	11.4	1988
MEAN	0.548	0.481	0.711	5.79	7.81	4.04	2.28	0.977	0.883	1.15	1.14	0.702	4.88	MEAN

LOCATION - LAT 51 21 38 N, LONG 101 18 21 W
DRAINAGE AREA, 1 330 km^2
NATURAL FLOW

REMARKS - AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

SHELL RIVER NEAR ROBLIN - STATION NO. 05MD007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1962	---	---	---	---	1962
1963	---	4.47 ON MAY 15	0.3088 ON MAR 1	18 000	1963
1964	---	7.14 ON MAY 10	0.2278 ON MAR 1	15 500	1964
1965	---	14.0 ON MAY 4	0.1088 ON MAR 1 *	43 000	1965
1966	---	18.0 ON MAY 10	0.8238 ON MAR 1	81 800	1966
1967	---	9.83 ON MAY 11	0.3118 ON MAR 14	35 700	1967
1968	---	4.28 ON APR 18	0.5138 ON MAR 21	13 700	1968
1969	---	13.7 ON APR 17	0.5158 ON MAR 1	22 800	1969
1970	---	29.4 ON MAY 11	0.5218 ON MAR 18	82 700	1970
1971	---	27.8 ON APR 23	0.5898 ON MAR 1	56 800	1971
1972	---	29.7 ON MAY 2	0.7028 ON MAR 11	81 700	1972
1973	---	3.518 ON APR 13	0.3868 ON MAR 1	18 700	1973
1974	---	30.0 ON APR 30	0.8698 ON MAR 1	97 200	1974
1975	---	25.8 ON MAY 3	0.8508 ON MAR 1	83 400	1975
1976	---	45.8 ON JUN 18	0.8618 ON MAR 1	98 100	1976
1977	---	5.788 ON APR 14	0.3118 ON MAR 31	17 300	1977
1978	---	9.80 ON APR 26	0.7788 ON MAR 1	28 300	1978
1979	44.2 AT 07:25 CST ON MAY 20	43.2 ON MAY 20	0.5608 ON MAR 1	90 100	1979
1980	8.56 AT 15:00 CST ON APR 19	8.36 ON APR 19	0.540E ON JUN 26	22 400	1980
1981	---	5.188 ON MAR 30	0.6008 ON MAR 1	16 800	1981
1982	---	6.17A ON APR 23	0.1758 ON MAR 1	17 100	1982
1983	16.7 AT 08:07 CST ON MAY 26	16.6 ON MAY 26	0.5508 ON MAR 1	54 800	1983
1984	---	16.3 ON JUN 30	0.6578 ON MAR 1	54 800	1984
1985	17.8 AT 23:54 CST ON APR 25	17.6 ON APR 26	0.7208 ON MAR 3	47 000	1985
1986	18.1 AT 05:18 CST ON APR 14	17.8 ON APR 14	0.8248 ON MAR 1	58 800	1986
1987	15.3 AT 21:55 CST ON APR 11	14.9 ON APR 11	0.6898 ON MAR 19	39 200	1987
1988	83.6 AT 08:55 CST ON MAY 4 *	75.5 ON MAY 5 *	0.5428 ON MAR 20	120 000	1981
				48 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.001	0.278	0.245	0.084	0.088	0.048	0.348	0.493	---	---	0.188	1977
1978	---	---	0.034	0.482	0.341	0.317	0.082	0.006	0.050	0.132	---	---	0.178	1978
1979	---	---	0.018	0.880	1.73	0.778	0.034	0.001	0.004	0.088	---	---	0.458	1979
1980	---	---	0.034	0.888	0.108	0.002	0	0	0.008	0.088	---	---	0.110	1980
1981	---	---	0.078	0.218	0.147	0.127	0.403	0	0	0.088	---	---	0.133	1981
1982	---	---	0.002	0.182	0.284	0.022	0.083	0.288	0	0.232	---	---	0.134	1982
1983	---	---	0	0.828	0.877	1.11	1.23	0.002	0	0.146	---	---	0.538	1983
1984	---	---	0.087	0.338	0.283	1.81	1.44	0.010	0	0.111	---	---	0.508	1984
1985	---	---	0.018	0.837	0.235	0.588	0.084	0.138	0.333	0.231	---	---	0.314	1985
1986	---	---	0.118	1.18	2.74	0.271	0.248	0.107	0.087	0.408	---	---	0.644	1986
1987	---	---	0.140	1.80	0.130	0.017	0	0	0.002	0	---	---	0.233	1987
1988	---	---	0.001	0.875	2.43	0.134	0	0	0	0.048	---	---	0.437	1988
MEAN	---	---	0.044	0.715	0.803	0.437	0.305	0.050	0.087	0.189	---	---	0.323	MEAN

LOCATION - LAT 51 12 26 N
LONG 100 41 42 W
DRAINAGE AREA, 137 km^2
REGULATED

SILVER CREEK NEAR GRANDVIEW - STATION NO. 05LJ040

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	0.858 AT 05:48 CST ON SEP 28	0.844 ON SEP 28	0B ON MAR 1 *	4 180	1977
1978	0.926 AT 19:58 CST ON OCT 27	0.784B ON APR 20	0 ON AUG 4	3 770	1978
1979	---	5.71 B ON APR 21	0 ON JUL 21	9 540	1979
1980	1.52 AT 08:30 CST ON APR 19	1.44 ON APR 18	0 ON MAY 30	2 320	1980
1981	4.72 AT 00:06 CST ON JUL 2	2.59 ON JUL 2	0B ON MAR 1	2 810	1981
1982	---	1.26 ON AUG 8	0B ON MAR 1	2 830	1982
1983	---	5.08 B ON APR 23	0B ON MAR 1	11 400	1983
1984	5.76 AT 12:11 CST ON JUN 24	5.26 ON JUN 25	0B ON MAR 1	10 600	1984
1985	2.09 AT 06:17 CST ON APR 23	2.04 ON APR 23	0 ON JUL 16	6 650	1985
1986	11.7 AT 23:50 CST ON MAY 12 *	8.26 ON MAY 11 *	0B ON MAR 1	13 800	1986
1987	---	5.72 B ON APR 7	0 ON JUN 13	4 930	1987
1988	10.8 AT 20:55 CST ON MAY 3	8.71 ON MAY 4	0B ON MAR 1	9 250	1988
				8 840	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1968	---	---	0.089	0.140	0.156	0.140	0.281	1.29	0.133	0.035	---	---	0.285	1968
1969	---	---	0	2.27	1.40	1.04	0.377	0.236	0.227	1.90	---	---	0.927	1969
1970	---	---	0.001	3.73	5.57	0.720	1.93	0.575	0.156	2.51	---	---	1.80	1970
1971	---	---	0.013	7.95	1.11	3.84	1.38	0.538	0.018	0.275	---	---	1.83	1971
1972	---	---	0.012	5.04	3.40	0.242	0.480	0.037	0.004	0.008	---	---	1.14	1972
1973	---	---	0.180	0.577	0.695	4.18	1.41	0.184	0.730	0.510	---	---	1.04	1973
1974	---	---	0.008	7.73	7.61	1.84	0.085	0.038	0.204	0.255	---	---	2.21	1974
1975	---	---	0	3.25	3.27	1.80	0.080	0.001	0.223	0.868	---	---	1.13	1975
1976	---	---	0.002	5.22	0.851	3.90	0.440	0.015	0	0	---	---	1.30	1976
1977	---	---	0	0.778	0.190	0.059	0.082	0.258	1.70	0.881	---	---	0.481	1977
MEAN	---	---	0.028	3.67	2.44	1.72	0.851	0.315	0.339	0.705	---	---	1.23	MEAN

LOCATION - LAT 52 10 20 N DRAINAGE AREA, 291 km²
LONG 100 58 30 W NATURAL FLOW

SINCLAIR RIVER NEAR MINITONAS - STATION NO. 05LE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1968	---	3.60 ON JUL 31	0.0 ON MAR 1 *	8 030	1968
1969	---	7.90 ON APR 14	0.0 ON MAR 1	19 800	1969
1970	---	18.9 ON MAY 3	0.0 ON MAR 1	40 300	1970
1971	---	25.8 ON APR 17	0 ON SEP 22	38 700	1971
1972	18.4 AT 12:00 CST ON APR 22	15.2 ON APR 22	0.0 ON MAR 1	24 200	1972
1973	16.5 AT 15:55 CST ON JUN 20	15.0 ON JUN 20	0.0 ON MAR 1	22 100	1973
1974	41.1 B AT 23:15 CST ON APR 18 *	35.4 ON APR 20 *	0 ON AUG 11	46 700	1974
1975	9.23 AT 17:57 CST ON MAY 3	8.52 ON MAY 3	0.0 ON MAR 1	23 800	1975
1976	19.1 AT 18:37 CST ON JUN 14	18.1 ON JUN 14	0.0 ON MAR 1	27 400	1976
1977	---	4.42 ON SEP 28	0.0 ON MAR 1	10 400	1977
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		25 800	MEAN

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05DB016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.058	0.075	0.027	0.011	0	0	0	0	0	0	---	1981
1982	0	0	0	0.488	0.025	0	0	0	0	0	0	0	0.040	1982
1983	0	0	0.087	0.019	0.017	0.085	0.017	0.001	0	0	0	0	0.017	1983
1984	0	0	0.051	0.189	0.008	0.005	0.001	0	0	0	0	0	0.021	1984
1985	0	0	0.008	0.358	0.084	0.078	0.023	0.002	0.049	0.088	0.039	0	0.060	1985
1986	0	0	0.824	3.48	1.83	0.420	0.235	0.110	0.035	0.010	0.002	0	0.545	1986
1987	0	0	0.178	1.31	2.77	0.706	0.270	0.058	0.042	0.347	0.098	0.001	0.485	1987
1988	0	0	0.141	0.395	0.111	0.007	0.100	0.284	0.187	0.021	0.002	0	0.103	1988
1989	0	0	0	7.56	2.94	0.527	0.348	0.117	0.005	0	0	0	0.982	1989
1970	0	0	0	2.09	4.39	2.24	0.990	0.312	0.233	0.087	0.024	0	0.886	1970
1971	0	0	0	8.37	3.95	0.639	0.734	0.186	0.084	0.071	0.013	0.002	1.17	1971
1972	0	0	0.477	3.59	1.47	0.157	0.008	0	0	0	0	0	0.473	1972
1973	0	0	0.149	0.008	0.002	0	0	0	0	0	0	0	0.013	1973
1974	0	0	0	8.61	10.8	3.48	0.645	0.276	0.194	0.135	0.090	0.012	1.88	1974
1975	0	0	0.117	0.736	1.03	0.334	0.028	0.002	0.005	0.008	0.001	0	0.189	1975
1976	0	0	0.017	5.68	1.74	0.517	0.289	0.158	0.045	0.001	0	0	0.701	1976
1977	0	0	0.008	0.074	0.047	0.008	0	0	0.003	0	0	0	0.012	1977
1978	0	0	0.013	2.83	1.23	0.084	0.020	0.011	0	0	0	0	0.348	1978
1979	0	0	0	8.29	11.1	1.89	0.534	0.050	0.071	0.002	0.002	0	1.85	1979
1980	0	0	0.005	0.359	0.057	0.001	0	0	0.006	0.074	0.148	0.009	0.054	1980
1981	0	0.140	0.188	0.598	0.303	0.115	0.018	0.003	0.001	0.002	0.001	0	0.111	1981
1982	0	0	0.188	1.76	0.857	1.82	0.123	0.008	0	0.008	0.004	0.021	0.388	1982
1983	0	0	0.208	0.888	0.210	0.010	0.148	0.053	0	0.002	0.002	0	0.108	1983
1984	0	0.001	0.110	0.085	0.057	0.002	0	0	0	0	0	0	0.021	1984
1985	0	0	0.528	1.80	0.112	0.120	0.063	0.053	0	0.011	0.002	0	0.211	1985
1986	0	0	0.578	1.54	1.15	1.18	0.187	0.006	0	0	0	0	0.388	1986
1987	0	0	0	7.13	1.38	0.229	0.002	0.047	0.002	0.001	0	0	0.727	1987
1988	0	0.002	0.041	0.084	0.002	0	0	0	0	0	0	0	0.011	1988
MEAN	0	0.005	0.138	2.28	1.89	0.523	0.171	0.081	0.034	0.030	0.015	0.002	0.427	MEAN

LOCATION - LAT 49 01 17 N DRAINAGE AREA, 250 km² INTERNATIONAL GAUGING STATION
LONG 98 36 13 W NATURAL FLOW

SNOWFLAKE CREEK NEAR SNOWFLAKE - STATION NO. 05080016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1961	---	0.3858 ON MAR 27	0E ON MAR 1 *	---	1961
1962	---	2.86 ON APR 16	0 ON JAN 1	1 280	1962
1963	---	0.280 ON MAR 21	0 ON JAN 1	543	1963
1964	---	0.614 ON APR 9	0 ON JAN 1	662	1964
1965	---	1.26 ON APR 11	0E ON JAN 1	1 910	1965
1966	---	6.43 ON APR 14	0E ON JAN 1	17 200	1966
1967	---	6.76 B ON APR 20	0E ON JAN 1	15 300	1967
1968	3.77 AT 07:50 CST ON JUL 30	1.73 ON AUG 25	0E ON JAN 1	3 240	1968
1969	---	18.5 A ON APR 11	0E ON JAN 1	30 400	1969
1970	---	7.80 ON APR 25	0E ON JAN 1	27 300	1970
1971	18.8 B AT 00:00 CST ON APR 12	18.2 B ON APR 11	0E ON JAN 1	36 800	1971
1972	---	8.66 ON APR 17	0E ON JAN 1	15 000	1972
1973	0.8008 AT 11:25 CST ON MAR 18	0.4388 ON MAR 11	0E ON JAN 1	422	1973
1974	23.3 AT 03:28 CST ON MAY 21 *	19.0 ON MAY 21	0E ON JAN 1	58 700	1974
1975	4.47 AT 20:30 CST ON APR 28	2.81 ON MAY 1	0E ON JAN 5	5 880	1975
1976	---	5.74 B ON APR 8	0E ON JAN 1	22 200	1976
1977	0.824 AT 03:41 CST ON MAY 19	0.450 ON MAY 19	0E ON JAN 1	388	1977
1978	8.99 AT 21:00 CST ON APR 27	6.37 ON APR 28	0E ON JAN 1	10 800	1978
1979	---	32.0 B ON APR 21 *	0E ON JAN 1	52 000	1979
1980	1.89 B AT 09:42 CST ON APR 5	1.21 B ON APR 5	0E ON JAN 1	1 720	1980
1981	2.31 AT 22:16 CST ON MAY 22	0.705 ON APR 7	0E ON JAN 1	3 510	1981
1982	---	14.3 ON JUN 6	0E ON JAN 1	12 200	1982
1983	1.60 B AT 10:55 CST ON APR 6	1.13 B ON APR 7	0E ON JAN 1	3 440	1983
1984	0.840 AT 13:39 CST ON MAR 25	0.421 ON MAR 25	0E ON JAN 1	672	1984
1985	5.35 B AT 12:06 CST ON APR 5	3.25 B ON APR 7	0E ON JAN 1	6 850	1985
1986	12.1 AT 04:56 CST ON JUN 3	8.17 ON JUN 3	0E ON JAN 1	12 200	1986
1987	12.4 B AT 23:15 CST ON APR 5	11.2 ON APR 11	0E ON JAN 1	23 000	1987
1988	0.832 AT 09:37 CST ON APR 3	0.821 ON APR 3	0E ON JAN 1	336	1988
				13 500	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT MELITA - STATION NO. 05NF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1913	---	---	---	---	---	3.80	2.39	1.04	0.961	0.686	---	---	---	1913
1914	---	---	---	---	---	---	4.27	3.16	1.20	0.555	---	---	---	1914
1915	0	0	0	0.714	2.03	1.10	0.783	0.274	0.639	0.674	0.188	0	0.961	1915
1916	0	0	0	44.2	84.2	37.5	9.80	5.18	1.66	1.54	0.566	0.162	36.4	1916
1917	0.120	0.110	0.473	20.1	26.7	10.4	2.56	0.466	0.273	0.227	0.447	0.060	14.4	1917
1918	0	0	1.82	10.8	4.79	2.05	0.468	0.481	0.342	0.358	0.284	---	4.85	1918
1919	---	---	---	31.2	27.4	3.25	0.862	0.172	0.180	0.368	---	---	---	1919
1920	---	---	---	24.7	43.6	20.4	3.82	1.56	0.811	0.810	---	---	---	1920
1921	---	---	---	5.67	4.10	2.44	4.18	4.44	1.60	0.935	0.531	---	---	1921
1922	---	---	0.946	35.1	28.9	10.1	3.39	1.76	0.892	---	---	---	18.7	1922
1935	---	---	---	---	---	---	---	---	---	0.072	---	---	---	1935
1936	---	---	---	9.39	0.848	0.096	0.040	0	0	---	---	---	---	1936
1975	---	---	0.805	42.5	184	146	80.1	---	---	---	---	---	93.4	1975
1976	---	---	12.5	387	218	76.1	26.4	16.7	8.61	---	---	---	172	1976
MEAN	0.030	0.028	2.33	55.6	54.8	26.1	9.13	2.94	1.43	0.603	0.405	0.067	48.7	MEAN

LOCATION - LAT 49 15 50 N, LONG 100 58 20 W
DRAINAGE AREA, 49 100 km^2
REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1882 AND 1904 WERE 850 AND 481 m^3/s RESPECTIVELY

SOURIS RIVER AT MELITA - STATION NO. 05NF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1913	---	---	---	---	1913
1914	---	---	---	---	1914
1915	---	5.13 ON JUN 18	0 E ON MAR 1 *	10 100	1915
1916	---	107 ON APR 22	0 B ON MAR 1	383 000	1916
1917	---	29.2 ON MAY 5	0.1138 ON MAR 1	152 000	1917
1918	---	15.4 ON APR 10	0.1138 ON MAR 1	51 100	1918
1919	---	39.9 ON APR 21	1.73 ON JUN 28	---	1919
1920	---	66.0 ON APR 24	0 B ON APR 1	---	1920
1921	---	14.2 B ON APR 15	0 B ON APR 1	---	1921
1922	---	46.2 ON APR 8	0 B ON MAR 1	197 000	1922
1935	---	---	---	---	1935
1936	---	28.0 ON APR 15	0 B ON APR 1	---	1936
1975	---	242 ON MAY 7	0.3888 ON MAR 1	985 000	1975
1976	---	556 B ON APR 12 *	5.66 B ON MAR 1	1 810 000	1976
				513 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1967	---	---	0.414	13.7	15.1	4.47	0.640	0.509	0.434	0.818	---	---	4.47	1967
1968	---	---	1.35	0.885	0.942	0.497	0.376	1.85	6.78	4.70	---	---	2.17	1968
1969	---	---	0.242	125	163	68.4	20.1	16.7	3.05	1.91	---	---	48.4	1969
1970	---	---	1.39	19.8	80.8	63.0	46.8	12.8	2.41	2.32	---	---	31.1	1970
1971	---	---	2.09	20.8	39.6	19.3	13.0	11.3	2.05	3.85	---	---	14.0	1971
1972	---	---	14.0	72.5	70.8	26.0	19.4	5.00	3.91	4.13	---	---	26.8	1972
1973	---	---	2.15	1.10	5.81	3.12	3.77	1.61	1.78	4.00	---	---	2.95	1973
1974	---	---	1.87	85.0	167	113	38.3	6.08	2.88	1.81	---	---	52.0	1974
1975	---	---	0.920	30.3	218	175	76.1	18.7	9.37	27.5	---	---	69.5	1975
1976	---	---	5.86	483	278	102	35.8	17.3	9.15	3.35	---	---	119	1976
1977	---	---	1.82	1.63	1.53	1.05	0.748	0.375	0.841	0.618	---	---	1.03	1977
1978	---	---	0.718	15.0	11.7	2.17	4.37	5.88	4.48	0.688	---	---	5.85	1978
1979	---	---	1.78	26.7	141	121	37.9	5.84	1.51	0.991	---	---	42.0	1979
1980	---	---	0.921	4.15	5.10	0.755	0.703	0.988	1.05	3.11	---	---	2.10	1980
1981	---	---	6.23	5.88	4.30	4.18	2.02	1.23	1.00	1.02	---	---	3.25	1981
1982	---	---	0.261	35.8	86.2	24.5	2.80	3.78	4.85	6.67	---	---	16.8	1982
1983	---	---	16.1	76.5	82.6	9.86	5.07	5.07	12.1	6.08	---	---	24.4	1983
1984	---	---	2.89	5.80	20.5	16.0	3.59	2.00	1.45	2.01	---	---	5.73	1984
1985	---	---	15.7	15.3	15.7	10.5	1.73	2.74	4.58	5.20	---	---	8.04	1985
1986	---	---	6.98	16.5	24.1	7.82	2.54	2.12	1.16	5.16	---	---	6.55	1986
1987	---	---	7.87	55.1	22.5	8.13	4.22	5.80	3.82	2.05	---	---	13.4	1987
1988	---	---	0.848	0.819	0.272	0.081	0.420	0.141	0.455	0.845	---	---	0.458	1988
MEAN	---	---	4.34	50.8	63.4	28.3	14.5	5.80	3.67	4.01	---	---	22.6	MEAN

LOCATION - LAT 49 37 10 N
LONG 100 15 00 W
DRAINAGE AREA, 88 000 km²
REGULATED

SOURIS RIVER AT SOURIS - STATION NO. 05NG021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1967	---	23.3 ON APR 22	B.2468 ON MAR 1	94 800	1967
1968	---	7.70 ON SEP 8	0.054 ON JUN 3	45 900	1968
1969	---	314 ON APR 21	B.2278 ON MAR 1	1 030 000	1969
1970	---	98.3 ON MAY 17	1.30 B ON MAR 31	658 000	1970
1971	---	43.3 ON MAY 4	1.16 ON SEP 4	295 000	1971
1972	---	100 ON APR 27	1.56 B ON MAR 1	568 000	1972
1973	---	12.0 ON MAY 26	0.284 ON APR 23	62 500	1973
1974	---	254 ON APR 26	0.7068 ON MAR 23	1 100 000	1974
1975	---	269 ON MAY 11	0.8508 ON APR 1	1 470 000	1975
1976	---	702 ON APR 14 *	2.03 ON OCT 21	2 450 000	1976
1977	---	3.54 ON MAY 22	0.244 ON SEP 21	21 755	1977
1978	---	28.9 B ON APR 17	B.255 ON JUL 10	124 000	1978
1979	---	189 ON MAY 26	0.093 ON SEP 16	880 000	1979
1980	---	6.288 ON APR 14	0.2278 ON MAR 1	44 400	1980
1981	15.2 AT 05:02 CST ON MAR 17	12.9 ON MAR 17	0.753 ON OCT 23	70 800	1981
1982	78.5 B AT 16:41 CST ON APR 15	76.7 B ON APR 15	0.0858 ON MAR 27	356 000	1982
1983	91.8 AT 13:18 CST ON APR 12 *	91.4 ON APR 12	1.72 ON OCT 24	517 000	1983
1984	27.8 AT 10:20 CST ON JUN 2	27.3 ON JUN 2	0.9988 ON MAR 8	143 000	1984
1985	85.1 B AT 23:14 CST ON MAR 24	58.4 B ON MAR 25	0.1788 ON MAR 10	191 000	1985
1986	31.2 AT 23:00 CST ON MAY 6	28.5 ON MAY 6	0.830 ON SEP 8	181 000	1986
1987	88.6 B AT 20:48 CST ON APR 6	77.4 B ON APR 6	0.8548 ON MAR 1	284 000	1987
1988	3.78 AT 00:38 CST ON JUL 7	1.80 ON APR 5	0.001 ON JUN 13 *	9 700	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		482 000	MEAN

SOURIS RIVER AT WAWANESA - STATION NO. 05MC001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	2.27	---	---	---	1912
1913	0.283	---	---	27.4	26.0	4.71	1.42	1.16	1.23	1.05	0.706	0.425	---	1913
1914	0.142	0	0	14.2	19.3	8.70	4.62	2.76	1.56	0.803	0.567	0.142	4.25	1914
1915	0	0	0.057	3.41	1.91	1.41	1.13	0.124	0.646	0.949	0.429	0.057	0.850	1915
1916	0.028	0	0.057	56.0	74.6	48.6	13.7	5.16	2.38	2.24	1.69	0.566	17.0	1916
1917	0	0	0.418	23.8	28.8	14.6	3.78	1.08	0.387	0.362	0.686	0.266	8.27	1917
1918	0	0	2.06	13.0	5.90	3.01	0.765	0.569	0.360	1.04	0.923	0.514	2.35	1918
1919	0.177	0	0.271	37.5	33.2	8.34	1.80	0.823	0.287	0.311	0.227	0.028	8.64	1919
1920	0	0	0	19.6	51.6	26.0	5.27	2.02	1.29	1.14	0.566	---	---	1920
1921	---	---	---	7.07	5.54	3.60	2.66	5.36	2.12	1.36	0.731	---	---	1921
1922	---	---	0.863	36.2	30.7	13.1	3.83	2.21	1.14	0.872	1.16	---	---	1922
1923	---	---	---	46.6	57.4	40.2	18.7	13.0	3.66	2.62	2.21	---	---	1923
1924	---	---	---	---	14.0	5.61	7.95	2.08	0.935	1.37	---	---	---	1924
1925	---	---	---	46.1	38.6	28.7	8.30	2.32	1.28	1.42	---	---	---	1925
1926	---	---	---	3.21	3.11	2.22	2.62	1.41	1.21	1.26	---	---	---	1926
1927	---	---	---	42.7	57.6	79.4	52.6	17.1	10.4	8.22	7.88	---	---	1927
1928	---	---	---	43.3	42.1	24.4	32.2	26.3	13.6	5.66	3.24	---	---	1928
1929	---	---	---	12.2	6.73	4.36	2.92	0.563	1.02	0.666	0.321	---	---	1929
1930	---	---	---	36.6	18.6	5.54	2.26	0.400	0.066	0.217	---	---	---	1930
1931	---	---	---	1.14	0.337	0.144	0.066	0.002	0.001	0.001	0.001	0	---	1931
1932	0	0	0	3.56	2.56	1.17	0.696	0.092	0.009	0.104	---	---	---	1932
1933	---	---	2.80	28.6	10.4	2.67	4.26	1.46	0.774	0.112	---	---	---	1933
1934	---	---	---	14.0	2.61	0.496	0.042	0	0	0	0	0	---	1934
1935	0	0	---	4.81	2.66	2.06	20.6	4.76	0.936	0.236	0.142	0	---	1935
1936	0	0	0	24.4	2.55	0.712	0.049	0	0	0	0	0	2.28	1936
1937	0	0	0	0.714	0.301	0.421	0.057	0.123	0.001	0	0	0	0.134	1937
1938	0	0	5.64	1.07	0.347	0.107	0.023	0.002	0	0	0	0	0.806	1938
1939	0	0	3.53	6.62	0.295	0.218	0.027	0	0	---	---	---	---	1939
1940	---	---	---	---	0.378	0.058	0.018	0.033	0.020	---	---	---	---	1940
1941	---	---	---	11.7	0.980	0.354	0.080	0.046	0.415	0.674	---	---	---	1941
1942	---	---	---	---	14.1	3.47	0.915	0.560	0.895	---	---	---	---	1942
1943	---	---	---	40.5	52.0	43.3	22.3	8.27	1.88	1.91	---	---	---	1943
1944	---	---	---	8.16	9.03	9.31	35.6	8.52	8.94	4.78	---	---	---	1944
1945	---	---	---	24.1	8.83	1.85	2.11	2.81	0.586	0.600	---	---	---	1945
1946	---	---	---	24.8	2.48	0.812	0.786	0.260	1.01	1.82	---	---	---	1946
1947	---	---	---	41.4	28.2	12.2	22.4	10.6	5.01	1.52	---	---	---	1947
1948	---	---	---	---	97.0	58.7	27.1	17.2	4.76	3.25	---	---	---	1948
1949	---	---	---	116	84.0	30.4	8.23	4.03	2.35	1.83	---	---	---	1949
1950	---	---	---	35.2	77.3	71.2	26.4	19.5	10.0	5.84	---	---	---	1950
1951	---	---	---	73.7	104	60.7	17.8	3.21	4.80	4.24	---	---	---	1951
1952	---	---	---	38.4	22.3	4.22	2.57	1.93	1.10	0.140	---	---	---	1952
1953	---	---	---	10.8	16.0	23.7	30.4	30.4	8.35	3.11	6.78	1.70	---	1953
1954	3.82	3.56	4.96	10.7	9.90	28.6	48.8	22.3	8.23	16.8	11.2	6.86	14.7	1954
1955	5.26	4.47	3.29	87.4	105	78.6	44.3	16.2	9.27	9.13	4.32	1.58	31.6	1955
1956	0.619	0.642	0.518	74.9	83.9	66.6	21.7	10.1	7.48	6.47	7.51	2.88	23.6	1956
1957	1.06	0.840	5.39	8.25	10.4	8.10	5.70	5.20	3.94	2.66	3.07	2.19	4.80	1957
1958	0.386	0.832	4.16	15.0	4.56	3.20	1.44	0.604	0.481	0.653	0.280	0.023	2.63	1958
1959	0.003	0.003	2.78	3.38	0.678	0.809	0.554	0.174	0.627	1.83	3.46	1.07	1.24	1959
1960	0.863	0.767	0.590	85.4	41.7	17.2	2.35	0.800	0.854	1.10	0.726	0.383	12.7	1960
1961	0.169	0.164	0.786	3.01	1.13	0.336	0.344	0.017	0.041	0.219	0.294	0.083	0.880	1961
1962	0.039	0.046	0.062	10.7	1.37	1.55	0.583	0.726	0.620	1.27	0.284	0.217	1.47	1962
1963	0.072	0	0.826	3.27	1.26	5.83	3.58	0.572	0.584	0.610	0.576	0.161	1.47	1963
1964	0.028	0.063	0.147	13.6	13.5	2.04	4.67	0.948	2.14	3.62	0.805	0.147	3.48	1964
1965	0.135	0.081	0.086	17.0	12.9	17.0	14.6	8.09	8.37	7.57	2.84	1.85	7.38	1965
1966	1.56	1.17	20.9	23.0	30.0	13.0	4.73	2.02	0.767	0.786	0.575	0.281	8.26	1966
1967	0.252	0.192	0.720	18.3	18.9	5.31	0.882	0.220	0.084	0.682	0.539	0.201	3.43	1967
1968	0.112	0.128	3.73	1.99	0.698	0.496	0.747	1.36	5.97	5.66	1.96	0.801	1.96	1968
1969	0.470	0.606	0.490	189	168	79.8	24.6	18.7	4.03	2.14	1.94	1.80	38.6	1969
1970	1.97	1.89	1.41	32.0	85.9	84.7	50.9	15.6	3.02	2.65	2.22	0.706	23.7	1970
1971	0.424	0.892	1.57	23.0	39.5	20.0	13.2	11.1	2.22	3.27	6.18	3.24	10.4	1971
1972	2.47	2.07	19.6	74.6	76.6	25.6	20.3	7.24	4.11	4.18	6.76	0.721	20.3	1972
1973	0.451	0.696	3.24	1.73	5.25	3.80	3.54	2.08	2.14	4.38	1.04	0.631	2.45	1973
1974	0.584	0.976	1.95	121	174	119	38.8	5.77	3.27	3.43	3.94	1.88	38.5	1974
1975	1.03	0.868	1.08	46.2	212	179	86.6	22.4	10.4	26.6	24.9	12.2	52.1	1975
1976	9.01	7.47	7.50	486	286	107	36.3	20.1	11.1	3.71	2.40	1.83	81.6	1976
1977	1.60	1.06	1.74	2.18	1.98	1.06	1.13	0.498	1.04	0.828	0.610	0.616	1.19	1977
1978	0.770	0.768	0.928	25.8	13.0	2.65	4.44	6.13	4.23	0.623	0.722	0.442	5.03	1978
1979	0.485	0.822	1.66	26.6	137	118	37.1	8.23	1.62	1.03	0.881	0.261	28.0	1979
1980	0.188	0.284	0.841	6.16	4.97	1.16	0.772	1.29	1.34	3.36	3.36	1.86	2.16	1980
1981	1.24	3.84	7.58	6.76	4.52	4.11	2.22	1.86	1.84	1.66	1.66	0.591	3.13	1981
1982	0.142	0.133	1.04	40.8	57.7	26.8	3.04	3.41	4.38	6.36	6.76	1.86	12.8	1982
1983	1.81	2.41	13.7	96.8	67.1	11.7	6.07	4.92	11.7	6.44	6.22	1.26	19.1	1983
1984	0.804	1.34	4.84	7.03	20.6	17.6	3.53	2.14	1.76	2.51	2.26	1.44	5.44	1984
1985	0.480	0.237	25.2	20.3	15.8	10.6	1.73	2.86	4.61	5.06	2.16	1.86	7.58	1985
1986	1.86	1.64	13.4	18.1	30.2	8.22	2.63	2.50	0.831	5.38	3.84	1.04	7.42	1986
1987	1.19	1.19	10.1	93.2	24.3	5.49	3.91	6.56	4.66	3.28	2.27	1.62	10.6	1987
1988	0.994	0.372	1.30	2.20	0.546	0.122	0.633	0.022	0.200	0.576	0.494	0.153	0.850	1988
MEAN	0.848	0.881	3.74	38.4	37.2	22.7	11.7	5.39	2.92	3.82	2.85	1.18	12.1	MEAN

LOCATION - LAT 49 35 05 N DRAINAGE AREA, 60 400 km²
LONG 99 40 55 W REGULATED

REMARKS - THE SOURIS RIVER BASIN STUDY ESTIMATED FLOWS OF HISTORICAL FLOODS, 1852 AND 1904 WERE 1130 AND 566 m³/s RESPECTIVELY

SOURIS RIVER AT WAWANESA - STATION NO. 05NG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	42.5 ON MAY 3	---	---	1913
1914	---	30.9 ON APR 25	0 B ON FEB 1 *	134 000	1914
1915	---	8.44 ON APR 14	0 B ON JAN 1	27 100	1915
1916	---	173 ON APR 19	0 B ON FEB 1	536 000	1916
1917	---	43.0 ON APR 15	0 B ON JAN 1	188 000	1917
1918	---	21.7 ON APR 7	0 B ON JAN 1	74 000	1918
1919	---	57.6 B ON APR 7	0 B ON FEB 1	210 000	1919
1920	---	79.3 ON APR 27	0 B ON JAN 1	---	1920
1921	---	19.7 ON APR 19	---	---	1921
1922	---	57.5 ON APR 12	0 B ON MAR 1	---	1922
1923	---	187 ON APR 18	---	---	1923
1924	---	---	---	---	1924
1925	---	85.0 E ON APR 3	---	---	1925
1926	---	14.5 ON APR 20	---	---	1926
1927	---	83.8 ON JUN 6	---	---	1927
1928	---	65.1 B ON MAR 30	---	---	1928
1929	---	36.5 B ON APR 15	---	---	1929
1930	---	78.9 B ON APR 5	---	---	1930
1931	---	2.88 ON APR 11	0 B ON APR 1	---	1931
1932	---	7.65 ON APR 15	0 B ON JAN 1	---	1932
1933	---	61.0 B ON MAR 31	0 B ON MAR 1	---	1933
1934	---	32.6 B ON APR 7	0 B ON APR 1	---	1934
1935	---	39.6 ON JUL 3	0 ON JAN 1	---	1935
1936	---	68.0 B ON APR 13	0 B ON JAN 1	71 800	1936
1937	---	1.87 ON APR 15	0 ON JAN 1	4 230	1937
1938	---	34.0 B ON MAR 20	0 ON JAN 1	19 200	1938
1939	---	38.2 ON APR 3	0 ON JAN 1	---	1939
1940	---	---	---	---	1940
1941	---	---	---	---	1941
1942	---	---	---	---	1942
1943	---	57.6 ON MAY 15	---	---	1943
1944	---	42.2 ON JUL 18	0 B ON APR 1	---	1944
1945	---	30.6 ON APR 11	---	---	1945
1946	---	50.1 ON APR 7	---	---	1946
1947	---	57.2 ON APR 17	---	---	1947
1948	---	117 ON MAY 8	---	---	1948
1949	---	234 B ON APR 11	---	---	1949
1950	---	107 ON MAY 11	---	---	1950
1951	---	123 ON APR 28	---	---	1951
1952	---	36.5 ON MAY 2	0 ON OCT 8	---	1952
1953	---	35.7 ON AUG 18	---	---	1953
1954	---	53.2 ON JUL 26	2.55 B ON FEB 2	485 000	1954
1955	---	118 ON APR 21	1.13 B ON DEC 31	897 000	1955
1956	---	205 B ON APR 15	0.3118 ON MAR 23	746 000	1956
1957	---	24.1 B ON MAR 23	0.1068 ON FEB 2	155 000	1957
1958	---	31.1 ON APR 8	0.0038 ON DEC 16	82 900	1958
1959	---	14.2 B ON MAR 27	0.003E ON JAN 1	39 200	1959
1960	283 AT 08:00 CST ON APR 12	239 ON APR 12	0.1648 ON DEC 1	400 000	1960
1961	7.14 AT 19:00 CST ON APR 7	5.61 ON APR 7	0.003 ON AUG 11	17 300	1961
1962	---	65.1 B ON APR 18	0 B ON NOV 11	48 200	1962
1963	15.3 AT 23:00 CST ON JUN 29	14.2 ON JUN 30	0 B ON JAN 26	46 300	1963
1964	---	31.7 B ON APR 18	0.0178 ON JAN 20	110 000	1964
1965	80.3 AT 02:30 CST ON JUL 22	75.3 B ON APR 12	0.0308 ON MAR 8	233 000	1965
1966	---	77.6 B ON MAR 21	0.0348 ON DEC 10	261 000	1966
1967	---	25.4 ON APR 21	0 ON SEP 8	108 000	1967
1968	8.13 AT 12:10 CST ON SEP 14	8.07 ON SEP 14	0 B ON FEB 18	81 800	1968
1969	326 AT 12:00 CST ON APR 22	323 ON APR 22	0.2278 ON APR 5	1 220 000	1969
1970	143 AT 22:07 CST ON APR 26	130 ON APR 26	0.4788 ON DEC 31	746 000	1970
1971	60.7 AT 13:15 CST ON APR 16	60.7 ON APR 16	0.3618 ON FEB 13	328 000	1971
1972	89.4 AT 24:00 CST ON APR 30	89.4 ON APR 30	0.8108 ON DEC 21	842 000	1972
1973	11.9 AT 13:53 CST ON MAY 27	11.8 ON MAY 27	0.4088 ON JAN 10	77 200	1973
1974	---	349 A ON APR 19	0.3488 ON JAN 21	1 280 000	1974
1975	359 AT 00:35 CST ON MAY 12	359 ON MAY 12	0.5048 ON FEB 10	1 840 000	1975
1976	765 B AT 00:00 CST ON APR 11 *	742 B ON APR 11 *	1.48 ON DEC 3	2 580 000	1976
1977	4.45 AT 22:30 CST ON MAY 4	3.23 ON MAY 5	0.1538 ON NOV 26	37 900	1977
1978	48.7 AT 09:34 CST ON APR 8	41.3 ON APR 8	0.1738 ON DEC 11	138 000	1978
1979	185 AT 04:30 CST ON MAY 26	181 ON MAY 26	0.3368 ON DEC 14	682 000	1979
1980	13.3 AT 18:00 CST ON APR 6	10.7 B ON APR 7	0.0828 ON JAN 6	68 000	1980
1981	14.6 AT 15:35 CST ON MAR 18	12.0 B ON MAR 18	0.3078 ON DEC 31	86 900	1981
1982	135 B AT 02:40 CST ON APR 15	118 B ON APR 15	0.0628 ON FEB 19	407 000	1982
1983	143 B AT 20:17 CST ON APR 7	121 B ON APR 8	0.5568 ON DEC 26	803 000	1983
1984	28.8 AT 07:27 CST ON JUN 3	28.7 ON JUN 3	0.2068 ON JAN 26	172 000	1984
1985	144 B AT 01:30 CST ON MAR 26	138 B ON MAR 26	0.1638 ON FEB 24	239 000	1985
1986	88.0 AT 08:36 CST ON MAY 7	80.6 ON MAY 7	0.613 ON SEP 9	234 000	1986
1987	102 B AT 11:57 CST ON APR 7	98.3 B ON APR 7	0.4248 ON DEC 31	333 000	1987
1988	8.888 AT 20:50 CST ON APR 5	4.598 ON APR 5	0.001 ON JUN 30	17 400	1988
				381 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	---	---	0.870	0.024	0.112	0.486	0.418	0.483	0.507	0.455	0.488	0.885	---	1977
1978	0.800	0.584	0.380	17.8	7.71	1.83	8.14	7.08	4.47	0.802	0.583	0.582	4.02	1978
1979	0.718	1.35	4.28	33.9	161	104	28.5	8.40	0.855	0.678	0.188	0.003	27.8	1979
1980	0.189	1.18	0.861	3.84	4.38	1.07	0.888	1.12	1.30	3.87	2.98	2.15	1.95	1980
1981	1.18	0.863	4.84	7.38	3.73	4.87	1.82	1.21	1.11	1.00	0.825	0.071	2.37	1981
1982	0	0	0	27.7	80.6	17.8	3.30	3.88	4.78	8.84	8.00	1.70	10.4	1982
1983	1.81	3.19	20.8	67.4	50.1	8.44	8.10	8.10	13.4	8.84	3.48	0.883	15.4	1983
1984	0.727	0.989	4.20	3.70	24.2	13.2	4.04	2.40	1.43	1.52	2.08	0.841	4.95	1984
1985	0.252	0.158	8.23	8.58	14.2	7.95	1.80	0.933	0.748	2.83	1.35	1.28	3.85	1985
1986	1.20	0.887	1.89	13.8	17.3	4.52	1.18	1.18	1.75	5.58	1.38	0.704	4.30	1986
1987	0.841	0.922	7.62	39.5	18.5	8.74	3.57	8.82	2.73	1.78	2.99	0.484	7.44	1987
1988	0.744	0.898	0.125	0.080	0.003	0.732	0.858	0.858	0 818	0.701	0.088	0	0.474	1988
MEAN	0.728	0.962	4.31	17.8	29.1	14.0	4.87	3.01	2.83	2.87	2.04	0.773	7.84	MEAN

LOCATION - LAT 49 05 27 N LONG 100 57 12 W DRAINAGE AREA, 43 200 km² REGULATED

SOURIS RIVER NEAR COULTER - STATION NO. 05NF016

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1977	---	1.810 ON MAR 14	---	---	1977
1978	32.0 AT 11:41 CST ON APR 28	31.4 ON APR 28	0.2418 ON MAR 10	127 000	1978
1979	204 AT 13:30 CST ON MAY 21 *	198 ON MAY 21 *	0 B ON DEC 17 *	878 000	1979
1980	7.86 AT 17:16 CST ON APR 29	7.43 ON APR 28	0 B ON JAN 1	61 700	1980
1981	11.3 AT 01:16 CST ON MAR 13	10.8 B ON MAR 13	0 B ON DEC 24	74 600	1981
1982	87.0 AT 10:27 CST ON APR 29	86.7 ON APR 28	0 B ON JAN 1	336 000	1982
1983	76.4 AT 12:21 CST ON MAY 4	75.5 ON MAY 4	0.335 ON OCT 19	487 000	1983
1984	29.7 AT 08:57 CST ON MAY 30	28.5 ON MAY 30	0.105 ON APR 26	168 000	1984
1985	18.4 B AT 10:17 CST ON APR 27	17.8 ON APR 27	0.0028 ON FEB 14	122 000	1985
1986	22.1 AT 17:53 CST ON MAY 9	18.5 ON MAY 9	0.1248 ON MAR 24	136 000	1986
1987	47.5 AT 02:36 CST ON APR 15	47.3 ON APR 15	0.0838 ON DEC 7	235 000	1987
1988	1.25 AT 03:56 CST ON SEP 12	1.18 ON SEP 12	0 ON APR 13	15 000	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		238 000	MEAN

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	17.5	73.4	57.0	8.33	6.34	4.70	12.2	5.72	---	---	23.2	1983
1984	---	---	3.56	4.46	23.3	14.8	3.34	2.23	1.41	2.12	---	---	8.76	1984
1985	---	---	12.7	13.5	14.8	8.88	1.22	2.87	3.88	4.70	---	---	7.80	1985
1986	---	---	8.18	15.6	23.4	5.88	2.01	2.09	1.40	5.20	---	---	8.08	1986
1987	---	---	6.38	52.6	20.3	4.88	3.72	8.18	3.14	1.80	---	---	12.8	1987
MEAN	---	---	10.3	31.8	27.6	8.85	3.33	3.81	4.37	3.83	---	---	11.7	MEAN

LOCATION - LAT 49 24 00 N LONG 100 45 37 W DRAINAGE AREA, 81 700 km² REGULATED

SOURIS RIVER NEAR LAUDER - STATION NO. 05NG025

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1983	81.1 AT 05:16 CST ON APR 11 *	80.8 ON APR 11 *	0.500 ON OCT 23	481 000	1983
1984	27.2 AT 11:34 CST ON MAY 31	27.0 ON MAY 31	0.825 ON MAY 1	143 000	1984
1985	43.28 AT 20:28 CST ON MAR 25	40.08 ON MAR 25	0.4508 ON MAR 1 *	188 000	1985
1986	28.8 AT 10:14 CST ON MAY 19	26.5 ON MAY 19	0.5898 ON MAR 2	171 000	1986
1987	81.0 AT 13:52 CST ON APR 13	80.8 ON APR 13	1.31 ON OCT 26	285 000	1987
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		247 000	MEAN

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1983	---	---	0.005	0.047	0.025	4.63	1.84	0.877	0.586	0.555	---	---	0.886	1983
1985	---	---	0.028	3.81	11.8	17.8	5.30	8.11	7.34	6.18	---	---	7.25	1985
1986	---	---	4.76	18.7	24.9	5.77	1.84	1.01	0.543	0.585	---	---	7.28	1986
1987	---	---	0.131	8.63	14.0	3.24	0.854	0.480	0.470	0.733	---	---	3.86	1987
1988	---	---	0.310	0.233	0.148	0.422	0.421	0.829	5.22	5.08	---	---	1.70	1988
1989	---	---	0.172	139	138	51.0	15.0	14.8	1.24	0.858	---	---	44.7	1989
1970	---	---	1.05	15.8	84.9	80.1	38.9	10.2	0.228	0.408	---	---	28.8	1970
1971	---	---	1.85	22.7	38.4	11.6	8.48	8.71	1.51	2.81	---	---	12.1	1971
1972	---	---	17.0	77.7	88.8	23.5	17.6	3.27	2.88	3.98	---	---	25.1	1972
1973	---	---	1.32	0.570	5.44	1.75	3.70	1.07	2.21	3.26	---	---	2.43	1973
1974	---	---	2.35	89.1	137	100	27.7	3.38	2.14	1.78	---	---	45.2	1974
1975	---	---	---	---	---	---	---	10.8	5.15	21.0	---	---	---	1975
1976	---	---	12.5	358	212	73.8	25.5	15.7	8.79	1.78	---	---	87.8	1976
1977	---	---	0.858	0.186	0.040	0.480	0.534	0.508	0.585	0.480	---	---	0.480	1977
1978	---	---	0.428	18.8	8.21	1.85	8.08	5.41	3.57	0.743	---	---	5.47	1978
MEAN	---	---	3.03	84.0	50.8	25.8	10.8	5.87	2.90	3.38	---	---	19.3	MEAN

LOCATION - LAT 49 10 20 N DRAINAGE AREA, 48 100 km²
LONG 101 01 48 W REGULATED

SOURIS RIVER NEAR MELITA - STATION NO. 05NF009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1983	13.8 AT 02:45 CST ON JUN 25	13.4 ON JUN 25	0 ON MAR 1 *	20 800	1983
1985	23.8 AT 17:30 CST ON JUN 25	23.7 ON JUN 26	0.0288 ON MAR 1	153 000	1985
1986	---	30.8 A ON MAY 4	0.255 ON OCT 31	154 000	1986
1987	24.9 AT 16:30 CST ON APR 19	24.3 ON APR 19	0 B ON MAR 1	77 400	1987
1988	---	7.53 ON SEP 9	0 A ON APR 22	36 100	1988
1989	---	305 A ON APR 17	0.0288 ON MAR 16	947 000	1989
1970	85.1 AT 23:51 CST ON JUN 7	84.3 ON JUN 5	0.008 ON OCT 8	584 000	1970
1971	---	44.7 A ON MAY 5	1.06 ON OCT 8	257 000	1971
1972	108 AT 17:07 CST ON APR 21 *	104 ON APR 21	1.42 B ON MAR 1	632 000	1972
1973	11.8 AT 08:07 CST ON MAY 24	11.7 ON MAY 23	0.467 ON APR 17	51 400	1973
1974	---	281 A ON APR 25	0.467 ON OCT 22	868 000	1974
1975	---	---	---	---	1975
1976	---	510 B ON APR 12 *	0.142 ON OCT 19	1 880 000	1976
1977	---	1.519 ON MAR 14	0.0078 ON MAY 3	8 740	1977
1978	28.5 AT 17:05 CST ON APR 28	28.3 ON APR 28	0.3349 ON MAR 10	118 000	1978
				410 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1929	---	---	---	---	---	---	---	0.380	0.185	0.234	---	---	---	1929
1930	---	---	---	26.1	11.0	2.87	1.16	0.154	0.245	0.314	0.429	0.142	---	1930
1931	0.014	0.014	0.028	1.86	0.636	0.128	0.083	0	0	0.148	0.224	0.057	0.247	1931
1932	0.028	0.028	0.148	2.09	1.71	0.744	0.386	0.089	0	0	0.239	0.057	0.454	1932
1933	0.028	0.028	3.97	24.8	8.21	5.19	5.82	1.86	0.291	0.174	0.387	0.085	4.05	1933
1934	0.028	0.028	2.02	8.33	1.59	0.131	0.022	0	0	0	0	0	1.01	1934
1935	0	0	0.188	1.57	2.13	0.506	4.61	1.94	0.222	0.009	0	0	0.944	1935
1936	0	0	0	0.909	0	0.216	0.104	0	0	0	0	0	0.101	1936
1937	0	0	0	0.052	0	0	0	0	0	0	0	0	0.004	1937
1938	0	0	0.004	0.001	0	0.211	0	0.222	0.008	0	0	0	0.037	1938
1939	0	0	0.001	0.006	0	0.239	0	0.130	0.034	0.280	0	0	0.058	1939
1940	0	0	0	0.007	0.028	0.020	0.087	0.073	0.089	0.084	0.001	0	0.029	1940
1941	0	0	0	0	0.003	0.180	0.207	0.328	0.467	0.244	0.018	0	0.121	1941
1942	0	0	0.017	11.6	7.15	0.727	0.521	0.783	0.860	0.712	0.027	0	1.85	1942
1943	0	0	0.004	17.4	59.6	33.2	23.4	3.39	2.42	1.40	0.338	0.004	11.9	1943
1944	0	0.187	0.849	5.26	7.54	8.33	36.6	3.46	9.70	2.67	1.90	3.88	6.73	1944
1945	3.32	2.04	4.46	21.4	4.76	0.741	0.540	2.52	0.516	0.532	0.018	0	3.39	1945
1946	0	0	0.056	9.09	0.667	0.845	0.444	0.585	1.80	0.341	0.015	0	1.12	1946
1947	0.008	0.028	0.028	28.5	19.2	5.52	10.8	8.11	2.08	0.303	0.267	0.023	6.34	1947
1948	0.017	0.006	0.013	26.2	82.1	46.0	9.63	7.01	1.21	0.585	1.33	1.88	13.1	1948
1949	0.813	0.381	0.213	81.3	41.2	17.3	1.12	1.12	0.918	0.335	0.026	0.036	12.9	1949
1950	0.071	0.085	0.174	20.8	58.6	37.0	10.5	4.22	1.76	0.780	0.377	1.34	11.4	1950
1951	3.43	4.88	2.76	52.2	70.8	43.0	8.61	0.784	4.12	2.07	1.85	4.59	16.4	1951
1952	1.11	0.788	3.38	22.2	16.3	0.278	2.68	2.18	0.367	0.086	0.897	1.21	4.19	1952
1953	0.478	0.387	0.705	5.20	13.3	22.6	34.3	28.7	4.09	4.40	5.00	2.96	10.3	1953
1954	3.87	3.83	4.32	8.84	8.76	22.3	44.2	11.0	2.02	12.7	5.17	2.85	10.8	1954
1955	1.82	1.96	2.03	59.8	87.4	42.4	17.6	7.85	3.45	3.78	0.207	0.078	16.6	1955
1956	0.388	0.425	1.49	28.1	87.6	38.9	9.63	4.60	3.99	3.22	5.28	1.56	13.0	1956
1957	1.27	0.755	1.07	0.800	3.84	5.32	2.06	0.749	0.855	0.832	3.33	1.46	1.81	1957
1958	0.801	0.400	0.011	0.198	1.76	2.43	0.831	0.813	0.804	0.417	0.029	0.003	0.875	1958
1959	0.003	0.001	0.027	0.008	0.021	0.704	0.881	0.843	0.485	0.871	1.82	0.414	0.438	1959
1960	0.582	0.587	1.85	48.2	23.8	12.8	0.585	0.388	0.835	0.888	0.145	0.058	7.32	1960
1961	0.002	0.014	0.154	0.150	0.292	0.585	0.544	0.303	0.275	0.314	0.088	0.028	0.231	1961
1962	0	0	0	0.085	0.140	0.136	0.185	0.294	0.294	0.480	0.010	0.003	0.134	1962
1963	0.003	0.003	0.008	0.003	0.011	4.55	1.22	0.814	0.578	0.854	0.041	0	0.836	1963
1964	0	0	0.003	0.011	4.02	1.25	2.89	0.482	2.81	2.34	0.008	0.003	1.17	1964
1965	0.002	0.003	0.003	0.423	10.2	17.6	4.73	5.58	7.59	5.78	2.00	1.37	4.70	1965
1966	1.38	1.17	3.00	13.4	21.8	4.83	2.03	1.11	0.838	0.825	0.194	0.003	4.22	1966
1967	0.001	0	0.007	9.49	13.4	2.56	0.729	0.840	0.500	0.713	0.040	0.002	2.35	1967
1968	0	0	0.008	0.010	0.180	0.858	0.556	0.826	5.61	3.41	0.888	0.837	1.05	1968
1969	0.371	0.109	0.172	91.8	128	50.8	11.0	14.2	0.958	0.681	0.704	2.18	26.2	1969
1970	2.48	1.81	1.22	14.2	66.4	77.2	33.7	8.98	0.588	0.585	0.334	0.083	17.3	1970
1971	0.859	1.62	1.67	19.8	32.5	9.44	9.82	8.43	0.948	2.87	5.26	2.77	8.13	1971
1972	2.16	1.67	8.78	67.5	45.6	21.2	16.7	2.78	2.71	4.23	8.38	0.841	15.0	1972
1973	0.526	1.23	0.743	0.130	5.63	1.28	3.94	0.815	2.30	2.98	0.885	0.872	1.78	1973
1974	0.861	1.63	2.57	68.6	121	91.6	22.0	2.67	2.12	1.67	2.85	0.852	26.6	1974
1975	0.824	0.845	1.03	29.8	155	118	47.8	6.74	2.50	13.4	10.2	5.88	32.9	1975
1976	5.41	5.36	12.5	251	189	62.8	22.1	14.8	5.46	1.13	0.886	1.47	45.8	1976
1977	1.11	0.825	0.550	0.018	0.005	0.608	0.595	0.589	0.593	0.595	0.529	0.732	0.562	1977
1978	0.888	0.744	0.478	15.3	8.49	1.80	6.08	6.20	3.78	0.799	0.812	0.858	3.84	1978
1979	1.05	2.18	3.04	22.8	141	89.8	23.1	4.35	0.884	0.811	0.179	0.017	24.2	1979
1980	0.202	1.15	0.683	2.82	3.58	0.889	0.786	0.774	1.23	3.30	3.17	2.07	1.70	1980
1981	1.19	0.781	4.80	7.01	3.69	4.43	1.38	1.20	1.03	0.821	0.633	0.028	2.25	1981
1982	0	0	0	26.4	49.8	18.8	2.86	3.84	4.20	5.57	7.28	1.58	10.3	1982
1983	1.68	3.31	22.1	88.3	46.8	8.41	5.85	5.41	11.4	4.88	3.23	0.830	15.0	1983
1984	0.852	0.748	3.48	2.83	24.8	13.8	5.81	2.98	1.27	1.30	1.77	0.538	4.89	1984
1985	0.147	0.088	4.46	8.34	13.2	8.00	1.70	0.835	0.803	2.48	1.32	1.35	3.58	1985
1986	1.15	1.02	1.51	12.8	18.5	4.88	1.15	1.15	1.77	8.34	1.28	0.719	4.28	1986
1987	0.784	0.798	5.38	43.8	14.1	4.75	3.11	8.12	2.37	1.88	2.72	0.433	7.15	1987
1988	0.853	0.729	0.120	0.052	0.138	0.834	0.824	0.630	0.889	0.574	0.088	0	0.441	1988
MEAN	0.721	0.783	1.88	22.0	27.8	16.3	7.77	3.31	1.83	1.81	1.43	0.818	7.29	MEAN

LOCATION - LAT 48 59 47 N LONG 100 57 29 W DRAINAGE AREA, 42 800 km² REGULATED INTERNATIONAL GAUGING STATION

SOURIS RIVER NEAR WESTHOPE - STATION NO. 05NF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1929	---	---	---	---	1929
1930	---	---	---	---	1930
1931	---	3.34 B ON APR 6	0 ON JUL 20	7 780	1931
1932	---	4.19 ON MAY 4	0 ON AUG 17	14 400	1932
1933	---	32.0 ON APR 17	0.028E ON JAN 1	128 000	1933
1934	---	14.8 ON APR 7	0 ON JUL 27	31 800	1934
1935	---	7.90 ON JUL 7	0 ON JAN 1	29 800	1935
1936	---	3.84 ON APR 14	0 ON JAN 1	3 200	1936
1937	---	0.255 ON APR 11	0 ON JAN 1	138	1937
1938	1.44 AT 12:00 CST ON JUN 18	1.19 ON JUN 18	0 ON JAN 1	1 180	1938
1939	0.821 ON OCT 23	0.765 ON OCT 21	0 ON JAN 1	1 850	1939
1940	---	0.396 ON OCT 13	0 ON JAN 1	928	1940
1941	1.02 AT 08:00 CST ON JUN 12	0.708 ON SEP 8	0 ON JAN 1	3 820	1941
1942	31.1 AT 19:30 CST ON APR 21	28.3 ON APR 22	0 B ON JAN 1	58 300	1942
1943	---	83.4 ON MAY 22	-0.891 ON APR 6 *	374 000	1943
1944	---	56.6 ON JUL 9	0 B ON JAN 5	213 000	1944
1945	---	29.4 ON MAR 31	0 B ON NOV 16	107 000	1945
1946	---	17.0 ON APR 8	0 B ON JAN 1	35 400	1946
1947	---	51.0 ON APR 19	0 ON JAN 1	200 000	1947
1948	---	82.1 ON APR 26	0 ON JAN 17	414 000	1948
1949	181 ON APR 18	178 ON APR 18	0.028 ON NOV 1	405 000	1949
1950	75.0 AT 22:00 CST ON MAY 17	74.5 ON MAY 17	0.057E ON JAN 1	358 000	1950
1951	---	87.6 ON APR 28	0.054 ON NOV 7	518 000	1951
1952	---	40.2 ON APR 24	0.054 ON OCT 31	132 000	1952
1953	43.9 AT 13:00 CST ON AUG 13	43.6 ON AUG 13	0.088E ON SEP 18	324 000	1953
1954	50.4 AT 13:00 CST ON JUL 13	49.8 ON JUL 14	0.823 ON SEP 21	341 000	1954
1955	98.1 AT 20:00 CST ON APR 14	97.1 ON APR 14	0.028E ON DEC 6	523 000	1955
1956	88.1 AT 23:00 CST ON MAY 21	83.0 ON MAY 22	0.227E ON JAN 1	412 000	1956
1957	---	7.59 ON JUN 14	0.099 ON APR 21	57 100	1957
1958	15.9 AT 15:00 CST ON MAY 12	5.72 ON MAY 12	0 ON MAR 8	21 300	1958
1959	5.30 ON JUN 3	5.30 ON NOV 6	0.001E ON FEB 1	13 800	1959
1960	80.0 AT 09:00 CST ON APR 23	57.8 ON APR 23	0 ON DEC 26	232 000	1960
1961	---	0.735 ON JUN 2	0 ON JAN 1	7 300	1961
1962	5.89 AT 10:30 CST ON AUG 7	0.850 ON OCT 17	0 ON JAN 1	4 240	1962
1963	17.0 AT 11:30 CST ON JUN 24	15.0 ON JUN 23	0 ON MAR 6	20 100	1963
1964	---	14.7 ON MAY 16	0 ON JAN 1	27 000	1964
1965	24.5 AT 17:00 CST ON JUN 28	24.1 ON JUN 27	0 ON JAN 11	148 000	1965
1966	24.1 AT 03:00 CST ON MAY 3	24.0 ON MAY 3	0.001 ON DEC 17	133 000	1966
1967	25.2 AT 19:00 CST ON APR 20	24.2 ON APR 20	0 ON JAN 31	74 200	1967
1968	8.27 AT 09:00 CST ON SEP 8	7.84 ON SEP 8	0 ON JAN 1	33 000	1968
1969	178 AT 14:00 CST ON APR 22	176 ON APR 22	0.028E ON MAR 16	784 000	1969
1970	88.3 AT 07:00 CST ON JUN 6	88.1 ON JUN 6	0.045 ON DEC 1	547 000	1970
1971	36.2 AT 02:00 CST ON APR 30	37.9 ON APR 30	0.048 ON JAN 1	257 000	1971
1972	85.7 ON APR 20	85.4 ON APR 17	0.510 ON DEC 12	474 000	1972
1973	12.6 ON MAY 20	12.4 ON MAY 20	0.011 ON APR 4	56 100	1973
1974	159 AT 21:30 CST ON APR 25	158 ON APR 25	0.836 ON DEC 4	837 000	1974
1975	180 AT 07:00 CST ON MAY 7	187 ON MAY 7	0.483 ON SEP 7	1 040 000	1975
1976	367 AT 18:00 CST ON APR 26 *	361 ON APR 28 *	0.037 ON OCT 15	1 450 000	1976
1977	---	1.56 B ON MAR 13	0.003 ON APR 18	17 700	1977
1978	24.0 AT 17:30 CST ON APR 22	22.0 ON APR 22	0.283E ON MAR 9	121 000	1978
1979	187 AT 21:00 CST ON MAY 21	185 ON MAY 21	0.008 ON NOV 14	785 000	1979
1980	8.04 AT 17:00 CST ON APR 24	7.08 ON APR 29	0.028E ON JAN 14	53 800	1980
1981	---	9.34 ON APR 24	0 ON DEC 9	71 100	1981
1982	---	57.1 ON APR 24	0 B ON JAN 1	326 000	1982
1983	76.5 ON APR 13	76.5 ON APR 14	0.139 ON OCT 19	473 000	1983
1984	31.1 ON MAY 30	31.1 ON MAY 30	0.127 ON APR 25	158 000	1984
1985	---	17.8 ON APR 27	0.028 ON FEB 7	112 000	1985
1986	25.6 AT 19:15 CST ON MAY 5	22.3 ON MAY 6	0.057E ON MAR 14	135 000	1986
1987	84.8 AT 04:45 CST ON APR 15	84.0 ON APR 15	0.013 ON DEC 6	225 000	1987
1988	1.58 AT 10:45 CST ON JUN 1	1.16 ON JUN 25	0 ON APR 17	14 000	1988
				230 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 05GA001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	---	---	---	---	---	---	---	57.8	50.3	32.5	---	1965
1966	---	---	---	24.4	177	380	175	86.5	50.0	27.4	25.6	24.0	---	1966
1967	21.1	16.4	12.3	---	---	---	203	83.6	51.7	---	---	---	---	1967
1968	---	14.3	14.9	---	---	---	134	77.6	83.4	126	85.6	63.9	---	1968
1969	36.2	23.4	21.3	21.8	30.6	67.9	89.1	61.8	270	173	98.8	49.8	77.2	1969
1970	32.8	21.0	18.7	22.0	98.0	195	97.1	83.1	82.0	84.7	138	78.0	80.8	1970
1971	37.2	26.1	21.3	---	---	160	288	220	249	242	180	104	---	1971
1972	53.8	31.1	24.3	23.4	208	234	193	128	127	115	88.5	82.4	108	1972
1973	36.8	28.4	26.1	20.7	147	118	76.0	47.4	37.0	36.0	32.8	24.8	52.8	1973
1974	18.8	17.0	15.0	---	---	---	88.5	127	110	77.5	54.4	40.7	---	1974
1975	31.8	21.1	15.9	25.8	---	---	284	233	149	112	79.8	49.8	---	1975
1976	32.6	25.4	22.2	27.7	181	170	115	71.8	137	132	86.8	61.7	87.8	1976
1977	38.8	30.0	27.5	61.8	213	230	232	172	124	91.3	52.7	26.1	111	1977
1978	18.8	18.6	18.6	18.8	---	---	129	216	279	205	108	53.1	---	1978
1979	27.8	18.0	10.6	10.8	---	---	82.1	72.3	72.8	94.4	62.9	38.8	---	1979
1980	24.8	18.7	13.0	30.5	122	175	123	278	341	182	107	50.8	123	1980
1981	28.3	25.8	24.8	24.8	126	148	72.0	38.0	37.4	38.8	35.3	19.8	51.3	1981
1982	12.7	10.0	8.74	8.77	143	188	105	83.0	78.0	81.4	36.7	27.0	63.1	1982
1983	23.0	18.8	15.0	12.7	18.5	---	184	122	357	258	126	84.3	---	1983
1984	45.8	33.8	23.5	78.8	216	188	110	88.7	121	79.3	51.8	34.7	89.0	1984
1985	24.8	20.8	19.0	17.8	73.7	188	78.7	53.1	43.7	38.7R	28.3R	18.8R	48.8R	1985
1986	14.3	11.8	10.8	10.0	---	---	280	207	132	80.3	49.8	35.7	---	1986
1987	28.7	25.8	22.0	18.8	88.1	181	105	57.1	81.0	83.6	45.7	31.2	58.2	1987
1988	23.2	20.0	18.8	17.7	129	257	143	80.7	40.0	28.3	23.8	21.3	67.0	1988
MEAN	28.4	21.8	18.3	28.1	130	180	148	116	133	105 R	72.8R	43.9R	78.4R	MEAN

LOCATION - LAT 58 08 35 N
LONG 98 13 40 W
DRAINAGE AREA, 13 000 km²
NATURAL FLOW

R - REVISED SINCE JAN 01 1987

SOUTH SEAL RIVER ABOVE FOX LAKE - STATION NO. 05GA001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1965	---	---	---	---	1965
1966	---	532 ON JUN 3 *	---	---	1966
1967	---	---	---	---	1967
1968	---	---	---	---	1968
1969	---	323 ON SEP 7	21.0 B ON FEB 28	2 430 000	1969
1970	---	244 ON JUN 5	18.7 B ON MAR 3	2 550 000	1970
1971	374 AT 18:07 CST ON JUL 13	371 ON JUL 14	---	---	1971
1972	337 AT 18:17 CST ON MAY 18	328 ON MAY 18	21.5 B ON APR 11	3 400 000	1972
1973	236 AT 17:30 CST ON MAY 14	225 ON MAY 14	17.4 B ON APR 29	1 870 000	1973
1974	---	---	---	---	1974
1975	382 AT 18:03 CST ON JUL 3	380 ON JUL 3	15.2 B ON MAR 21	---	1975
1976	234 AT 13:00 CST ON MAY 21	232 ON MAY 21	21.8 B ON MAR 18	2 780 000	1976
1977	278 AT 17:38 CST ON JUL 24	276 ON JUL 22	18.8 B ON DEC 31	3 490 000	1977
1978	365 AT 14:12 CST ON AUG 25	360 ON AUG 24	16.6 B ON JAN 13	---	1978
1979	---	---	9.548 ON APR 1	---	1979
1980	504 AT 17:20 CST ON AUG 29 *	500 ON AUG 29	12.8 B ON MAR 23	3 880 000	1980
1981	246 AT 18:17 CST ON MAY 23	243 ON MAY 23	15.2 B ON DEC 31	1 820 000	1981
1982	236 AT 14:10 CST ON JUN 13	230 ON JUN 14	8.468 ON MAR 25 *	1 880 000	1982
1983	---	---	11.0 B ON MAY 12	---	1983
1984	312 ON APR 29	304 ON APR 29	15.4 B ON APR 10	2 810 000	1984
1985	---	243E ON JUN 4	15.8 B ON DEC 4	1 570 000R	1985
1986	---	---	9.888 ON APR 8	---	1986
1987	---	191E ON JUN 2	17.7 B ON APR 21	1 840 000	1987
1988	293 AT 18:10 CST ON JUN 10	291 ON JUN 8	17.8 B ON APR 13	2 120 000	1988
				2 470 000R	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD
R - REVISED SINCE JAN 01 1988

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1963	---	---	---	---	---	---	0.040	0	0	0	---	---	---	1963
1964	---	---	0	0.834	0.082	0.030	0.027	0.033	0.385	0.038	---	---	0.146	1964
1965	---	---	0	1.17	0.414	0.080	0.023	0	0.010	0.007	---	---	0.211	1965
1966	---	---	0.780	0.784	0.729	0.054	0.189	0.008	0	0	---	---	0.318	1966
1967	---	---	0.200	1.46	0.286	0.022	0.080	0	0	0	---	---	0.286	1967
1968	---	---	0.098	0.070	0.430	0.061	0.843	1.45	0.306	0.158	---	---	0.403	1968
1969	---	---	0	2.20	0.264	0.465	0.415	0.046	0.003	0.011	---	---	0.419	1969
1970	---	---	0	2.85	1.87	0.128	0.018	0	0	0	---	---	0.554	1970
1971	---	---	0	1.58	0.105	0.177	0.189	0.001	0.136	0.304	---	---	0.304	1971
1972	---	---	0.837	1.38	0.208	0.026	0.007	0.001	0	0	---	---	0.305	1972
1973	---	---	0.119	0.026	0.004	0.007	0.018	0.001	0	0	---	---	0.022	1973
1974	---	---	0	2.56	1.83	0.121	0.004	0	0	0	---	---	0.535	1974
1975	---	---	0	0.575	0.193	0.265	0.027	0	0	0	---	---	0.131	1975
1976	---	---	0.048	1.72	0.073	0.004	0	0	0	0	---	---	0.226	1976
1977	---	---	0	0.008	0.092	0.010	0	0	0.108	0.008	---	---	0.028	1977
1978	---	---	0.047	1.27	0.321	0.177	0.128	0	0.034	0.005	---	---	0.268	1978
1979	---	---	0	3.42	1.21	0.255	0.039	0.007	0	0	---	---	0.805	1979
1980	---	---	0	0.303	0.002	0	0	0	0	0	---	---	0.037	1980
1981	---	0.058	0.047	0.010	0.010	0.013	0.001	0.012	0	0	---	---	0.012	1981
1982	---	---	0.112	0.302	0.024	0.004	0	0	0	0.008	---	---	0.056	1982
1983	---	---	0.421	0.841	0.031	0.048	0.003	0	0	0	---	---	0.187	1983
1984	---	---	0.105	0.051	0.091	0.127	0.002	0	0	0.002	---	---	0.047	1984
1985	---	---	0.811	0.304	0.058	0.084	0.019	0.778	0.033	0.213	---	---	0.285	1985
1986	---	---	1.55	0.983	1.20	0.058	0.112	0.004	0	0	---	---	0.495	1986
1987	---	---	0.309	0.856	0.028	0.001	0	0.017	0	0	---	---	0.154	1987
1988	---	---	0.020	0.085	0.012	0	0	0	0	0	---	---	0.014	1988
MEAN	---	0.059	0.211	1.01	0.388	0.090	0.075	0.081	0.038	0.029	---	---	0.238	MEAN

LOCATION - LAT 49 22 50 N DRAINAGE AREA, 68.8 km²
LONG 98 14 55 W NATURAL FLOW

REMARKS - FORMERLY PUBLISHED UNDER STA. NO.05OB026. 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE .516 AND 0 M3/S OCCURRED IN FEB

SOUTH TOBACCO CREEK NEAR MIAMI - STATION NO. 05OF017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1963	---	---	0 ON JUL 31 *	---	1963
1964	13.1 ON SEP 1	5.47 ON SEP 1	0 ON MAR 1	3 100	1964
1965	---	7.83 B ON APR 13	0B ON MAR 1	4 470	1965
1966	14.8 AT 01:30 CST ON MAY 5	8.35 ON MAY 5	0B ON MAR 1	8 680	1966
1967	24.4 AT 15:00 CST ON APR 20	15.0 ON APR 20	0B ON MAR 1	5 400	1967
1968	24.8 AT 07:30 CST ON AUG 24	18.8 ON AUG 24	0B ON MAR 1	8 530	1968
1969	---	10.3 B ON APR 12	0B ON MAR 1	8 880	1969
1970	13.6 AT 03:50 CST ON APR 28	12.8 ON APR 28	0 ON MAR 1	11 700	1970
1971	---	11.4 B ON APR 8	0 ON MAR 1	6 420	1971
1972	---	5.06 B ON APR 9	0B ON MAR 1	8 450	1972
1973	---	0.265B ON MAR 11	0B ON MAR 1	458	1973
1974	17.9 AT 01:12 CST ON MAY 21	14.8 ON APR 17	0B ON MAR 1	11 300	1974
1975	14.2 AT 14:20 CST ON JUN 28	4.11 ON JUN 28	0B ON MAR 1	2 770	1975
1976	9.94 AT 23:27 CST ON APR 4	5.20 ON APR 5	0B ON MAR 1	4 780	1976
1977	1.70 AT 08:05 CST ON MAY 18	0.823 ON MAY 18	0 ON MAR 1	588	1977
1978	11.6 AT 02:25 CST ON MAY 28	8.55 ON APR 6	0B ON MAR 1	5 190	1978
1979	---	26.0 E ON APR 18 *	0B ON MAR 1	12 900	1979
1980	2.05 AT 23:39 CST ON APR 8	1.50 ON APR 5	0B ON MAR 1	781	1980
1981	1.30 AT 08:45 CST ON JUN 24	0.287E ON MAR 15	0 ON MAR 1	249	1981
1982	3.82 AT 23:07 CST ON APR 11	2.43 ON APR 12	0B ON MAR 1	1 180	1982
1983	11.2 AT 20:57 CST ON MAR 30	4.46 ON APR 7	0B ON MAR 1	3 530	1983
1984	3.60 AT 03:30 CST ON JUN 22	1.09 ON JUN 22	0B ON MAR 1	994	1984
1985	23.5 AT 08:05 CST ON AUG 17	15.0 ON AUG 17	0B ON MAR 1	5 820	1985
1986	26.5 AT 04:05 CST ON MAY 5 *	16.8 ON MAY 5	0B ON MAR 1	10 500	1986
1987	6.68B AT 22:00 CST ON APR 5	5.38 B ON APR 5	0B ON MAR 1	3 250	1987
1988	---	0.375E ON APR 3	0B ON MAR 1	305	1988
				5 040	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.623	0.038	0.030	---	---	---	---	---	---	---	1964
1965	---	---	0	1.55	0.818	0.140	0.108	0	0.028	0	---	---	0.302	1965
1966	---	---	0.601	1.32	1.27	0.048	0.892	0.037	0	0	---	---	0.488	1966
1967	---	---	0.187	1.76	0.454	0.030	0.471	0	0	0	---	---	0.381	1967
1968	---	---	0.118	0.168	0.578	0.061	0.828	2.24	0.510	0.157	---	---	0.587	1968
1969	---	---	0	4.38	0.388	0.529	1.12	0.108	0.018	0.010	---	---	0.810	1969
1970	---	---	0	5.63	2.48	0.184	0.036	0	0	0	---	---	1.03	1970
MEAN	---	---	0.101	2.20	0.829	0.140	0.841	0.388	0.082	0.028	---	---	0.593	MEAN

LOCATION - LAT 49 24 55 N DRAINAGE AREA, 136 km²
LONG 98 09 38 W NATURAL FLOW

SOUTH TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	---	0.0 ON MAR 1 *	---	1964
1965	---	13.88 ON APR 13	0.0 ON MAR 1	6 400	1965
1966	16.8 AT 04:30 CST ON MAY 5	12.0 ON MAY 5	0.0 ON MAR 1	10 500	1966
1967	---	17.48 ON APR 21	0.0 ON MAR 1	7 620	1967
1968	---	18.1 ON AUG 25	0.0 ON MAR 1	11 800	1968
1969	---	20.0 ON APR 11	0.0 ON MAR 1	17 200	1969
1970	28.8 AT 05:20 CST ON APR 26 *	21.1 ON APR 26 *	0.0 ON MAR 1	21 700	1970
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		12 500	MEAN

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	0.815	0.524	0.086	---	1928
1929	0.057	0.028	0.343	1.16	1.48	1.60	0.823	0.042	0.034	0.085	0.174	---	---	1929
1930	---	---	---	2.34	10.3	2.83	5.98	0.278	0.043	0.184	0.780	---	---	1930
1931	---	---	---	2.54	2.28	0.767	0.388	0.078	0.088	0.230	---	---	---	1931
1932	---	---	---	5.34	3.82	1.09	1.11	0.267	0.421	1.09	1.82	---	---	1932
1933	---	---	---	7.80	3.87	2.08	0.072	0.013	0.026	0.055	---	---	---	1933
1934	---	---	---	0.467	0.345	0.350	0.074	0.025	0.011	0.133	---	---	---	1934
1935	---	---	---	2.03	2.42	0.884	0.881	0.940	0.414	0.255	---	---	---	1935
1936	---	---	---	4.93	3.16	0.680	0.037	0.008	0.088	0.038	0.033	---	---	1936
1937	---	---	---	3.48	8.01	2.61	5.83	2.45	0.448	0.337	---	---	---	1937
1938	---	---	1.08	2.71	9.24	1.99	0.214	0.038	0.015	0.029	0.039	---	---	1938
1939	---	---	---	---	0.195	0.477	0.048	0.028	0.022	---	---	---	---	1939
1940	---	---	---	0.506	0.471	0.127	0.044	0.028	0.032	0.080	0.233	0.078	---	1940
1941	0.051	0.044	0.040	5.32	1.12	4.62	0.388	0.038	11.9	7.33	1.14	0.180	2.87	1941
1942	0.033	0.032	2.84	5.40	5.78	1.50	0.290	2.54	10.5	1.16	0.388	0.087	2.62	1942
1943	0.088	0.082	0.076	5.79	6.82	6.82	1.56	0.383	0.709	0.248	0.278	0.074	2.28	1943
1944	0.035	0.018	0.038	2.74	3.15	12.2	1.80	2.45	3.89	0.885	3.05	0.388	2.53	1944
1945	0.088	0.072	5.48	7.90	3.93	1.80	2.82	1.80	5.54	2.35	0.788	0.180	2.74	1945
1946	0.083	0.080	2.75	4.06	3.09	0.585	0.630	0.030	0.088	0.203	0.187	0.087	1.00	1946
1947	0.054	0.018	0.021	1.49	2.42	8.55	0.621	0.784	0.789	2.00	0.572	0.184	1.84	1947
1948	0.088	0.070	0.118	9.67	4.43	0.740	2.06	2.63	0.132	0.086	0.135	0.088	1.70	1948
1949	0.051	0.048	0.062	4.99	3.18	0.825	0.182	0.220	0.033	0.524	0.757	0.112	0.914	1949
1950	0.054	0.068	0.070	5.88	20.1	4.32	2.58	0.315	4.98	3.74	0.709	0.185	3.80	1950
1951	0.085	0.098	0.192	6.39	4.82	0.778	0.089	0.169	0.529	0.628	0.310	0.037	1.18	1951
1952	0.015	0.042	0.070	0.948	0.338	0.371	0.631	0.104	0.028	0.027	0.051	0.025	0.220	1952
1953	0.026	0.024	0.217	0.795	1.42	3.01	1.00	0.108	0.222	0.208	0.185	0.113	0.610	1953
1954	0.113	0.046	0.103	4.51	5.88	3.80	0.331	0.108	0.271	0.158	0.149	0.104	1.27	1954
1955	0.057	0.050	0.048	5.58	2.77	8.57	0.987	0.088	0.340	1.01	0.425	0.110	1.50	1955
1956	0.085	0.082	0.109	7.13	7.85	2.09	8.34	1.35	2.85	0.796	3.08	0.182	2.85	1956
1957	0.042	0.047	1.18	3.58	4.68	8.05	3.80	0.427	0.701	1.05	0.788	0.087	1.87	1957
1958	0.047	0.121	0.287	0.380	0.314	0.237	2.84	0.290	0.101	0.413	0.834	0.228	0.487	1958
1959	0.105	0.046	0.208	4.17	6.18	4.80	1.15	0.479	0.426	2.74	0.852	0.185	1.77	1959
1960	0.080	0.050	0.045	8.88	3.07	2.18	0.883	0.311	0.085	0.125	0.384	0.082	1.18	1960
1961	0.035	0.038	0.494	0.889	1.48	0.283	0.021	0.003	0.034	0.071	0.072	0.030	0.298	1961
1962	0.014	0.010	0.025	1.98	8.51	8.27	1.33	4.18	1.16	0.518	0.588	0.258	2.08	1962
1963	0.018	0.018	0.538	7.70	4.26	4.81	0.878	0.080	0.023	0.033	0.039	0.021	1.81	1963
1964	0.008	0.008	0.015	1.81	3.90	4.47	1.84	0.230	2.04	3.48	0.767	0.070	1.84	1964
1965	0.044	0.035	0.051	10.8	10.9	4.96	5.71	0.488	2.50	4.82	1.85	0.808	3.55	1965
1966	0.293	0.113	1.31	17.8	11.8	3.17	1.20	0.387	0.482	0.263	0.171	0.092	3.08	1966
1967	0.035	0.008	0.208	10.8	5.77	0.891	0.785	0.080	0.017	0.037	0.035	0.035	1.57	1967
1968	0.019	0.018	0.788	1.81	1.31	7.53	3.88	4.54	2.22	1.47	0.755	0.184	2.08	1968
1969	0.045	0.035	0.132	11.5	4.17	5.27	0.834	0.703	0.182	0.943	0.408	0.088	2.02	1969
1970	0.048	0.044	0.058	8.18	14.5	7.82	0.888	0.184	0.282	0.371	0.887	0.185	2.74	1970
1971	0.081	0.047	0.062	4.58	2.80	1.83	1.05	0.281	0.178	0.703	1.86	0.185	1.14	1971
1972	0.070	0.032	0.314	8.49	3.81	0.808	0.081	0.086	0.330	0.436	0.441	0.085	1.07	1972
1973	0.025	0.032	0.822	0.781	1.13	1.03	0.778	1.58	2.56	3.44	0.870	0.252	1.12	1973
1974	0.089	0.088	0.063	16.0	13.4	2.92	0.188	2.23	1.22	0.883	0.521	0.105	3.14	1974
1975	0.088	0.086	0.054	5.35	5.85	3.26	1.34	0.138	0.158	0.141	0.182	0.051	1.39	1975
1976	0.046	0.050	0.131	4.01	1.33	1.82	0.587	0.047	0.018	0.029	0.031	0.008	0.854	1976
1977	0.007	0.004	0.035	0.268	0.174	0.250	0.181	0.021	0.548	0.879	0.887	0.380	0.311	1977
1978	0.089	0.045	0.080	8.47	3.69	0.940	1.04	0.207	0.200	0.118	0.092	0.054	1.25	1978
1979	0.037	0.028	0.125	9.50	7.25	2.14	0.159	0.071	0.054	0.048	0.058	0.040	1.82	1979
1980	0.020	0.029	0.048	0.915	0.063	0.003	0.001	0.079	0.084	0.311	0.306	0.053	0.159	1980
1981	0.025	0.075	0.272	0.203	0.471	3.41	0.606	0.706	1.85	3.47	1.30	0.405	1.08	1981
MEAN	0.058	0.048	0.483	4.89	4.58	2.80	1.38	0.888	1.17	0.888	0.823	0.142	1.85	MEAN

LOCATION - LAT 48 59 33 N, LONG 95 39 43 W DRAINAGE AREA, 455 km^2, NATURAL FLOW INTERNATIONAL GAUGING STATION

REMARKS - FORMERLY PUBLISHED UNDER STA. NO. 05OD003

SPRAGUE CREEK NEAR SPRAGUE - STATION NO. 05OD031

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	4.81 AT 08:00 CST ON MAY 30	4.67 ON MAY 30	---	---	1929
1930	29.4 AT 14:00 CST ON MAY 13	28.9 ON MAY 13	0 B ON APR 1 *	---	1930
1931	4.67 B ON APR 9	4.25 B ON APR 9	---	---	1931
1932	11.5 B ON APR 14	10.0 B ON APR 13	---	---	1932
1933	18.4 AT 08:00 CST ON APR 20	18.4 ON APR 20	---	---	1933
1934	0.7388 AT 13:00 CST ON APR 7	0.680 ON JUN 24	0 ON AUG 8	---	1934
1935	---	---	---	---	1935
1936	17.3 AT 23:00 CST ON APR 20	16.9 ON APR 21	---	---	1936
1937	44.2 AT 03:00 CST ON JUL 17	41.9 ON JUL 17	---	---	1937
1938	---	---	---	---	1938
1939	0.850 AT 08:30 CST ON JUN 4	0.783 ON JUN 4	0 ON JUL 30	---	1939
1940	2.04 B ON APR 30	1.84 B ON APR 16	---	---	1940
1941	53.7 AT 10:30 CST ON SEP 26	52.4 ON SEP 26	0.0038 ON DEC 31	84 200	1941
1942	56.6 AT 18:00 CST ON SEP 1	55.5 ON SEP 1	0 B ON JAN 1	78 700	1942
1943	---	22.8 ON APR 10	0.0408 ON DEC 22	71 800	1943
1944	30.8 AT 19:00 CST ON JUN 8	30.0 ON JUN 7	0.0118 ON FEB 9	78 900	1944
1945	30.0 AT 20:00 CST ON MAR 28	27.4 ON MAR 28	0.0878 ON FEB 6	86 400	1945
1946	8.82 B ON MAR 23	8.50 B ON MAR 23	0.014 ON AUG 26	31 500	1946
1947	41.6 AT 08:00 CST ON JUN 12	38.4 ON JUN 12	0 B ON FEB 23	48 400	1947
1948	28.8 AT 01:00 CST ON APR 21	27.1 ON APR 21	0.048 ON OCT 5	53 900	1948
1949	11.8 AT 01:00 CST ON APR 15	11.4 ON APR 15	0.023 ON SEP 9	28 800	1949
1950	41.8 ON MAY 12	36.8 E ON MAY 11	0.0408 ON FEB 28	114 000	1950
1951	---	11.0 ON MAY 2	0.0148 ON DEC 28	37 400	1951
1952	1.95 AT 07:00 CST ON JUL 4	1.93 ON JUL 4	0.0148 ON JAN 1	8 970	1952
1953	8.85 AT 23:00 CST ON JUN 3	8.20 ON JUN 4	0.0238 ON JAN 17	18 200	1953
1954	14.8 AT 20:00 CST ON APR 30	14.4 ON MAY 1	0.031 ON AUG 8	39 900	1954
1955	16.3 AT 10:30 CST ON JUN 8	15.4 ON JUN 8	0.011 ON SEP 6	47 200	1955
1956	24.4 AT 22:00 CST ON JUL 5	21.8 ON JUL 5	0.0428 ON JAN 27	83 800	1956
1957	11.8 AT 23:00 CST ON JUN 15	11.8 ON JUN 15	0.0238 ON JAN 17	59 000	1957
1958	4.87 AT 07:00 CST ON JUL 10	4.84 ON JUL 9	0.0248 ON JAN 24	15 700	1958
1959	16.8 AT 18:00 CST ON MAY 7	16.5 ON MAY 7	0.0318 ON MAR 11	65 700	1959
1960	20.0 AT 17:00 CST ON APR 15	19.7 ON APR 18	0.040 ON SEP 23	37 200	1960
1961	3.28 B AT 20:10 CST ON MAR 24	2.83 B ON MAR 26	0 ON AUG 8	9 380	1961
1962	24.4 AT 03:00 CST ON MAY 25	23.9 ON MAY 25	0 B ON JAN 30	65 800	1962
1963	20.0 AT 13:00 CST ON APR 10	18.5 ON APR 10	0.0038 ON JAN 31	47 800	1963
1964	13.2 AT 00:00 CST ON JUN 20	12.6 ON JUN 20	0.0038 ON FEB 25	48 700	1964
1965	35.4 AT 12:00 CST ON MAY 7	34.0 ON APR 15	0.0288 ON FEB 2	112 000	1965
1966	28.4 AT 02:30 CST ON APR 15	28.1 ON APR 16	0.0488 ON DEC 31	87 200	1966
1967	31.1 AT 23:00 CST ON APR 22	30.0 ON APR 22	0.0038 ON FEB 12	48 500	1967
1968	24.4 AT 15:00 CST ON JUN 11	23.8 ON JUN 11	0.0178 ON JAN 18	85 100	1968
1969	24.8 AT 02:30 CST ON APR 13	24.3 ON APR 13	0.0288 ON FEB 8	63 800	1969
1970	33.4 AT 10:00 CST ON APR 28	32.8 ON APR 28	0.037 ON SEP 8	88 500	1970
1971	8.74 ON APR 19	8.78 ON APR 20	0.0408 ON FEB 15	36 100	1971
1972	13.5 AT 05:00 CST ON APR 23	13.4 ON APR 22	0.0238 ON FEB 10	33 800	1972
1973	10.5 AT 03:00 CST ON SEP 26	10.4 ON APR 26	0.0148 ON JAN 9	35 400	1973
1974	72.5 ON APR 22 *	70.2 ON APR 22 *	0.018 ON JUL 28	98 100	1974
1975	13.9 AT 10:30 CST ON APR 28	13.7 ON APR 28	0.0488 ON MAR 11	43 800	1975
1976	5.38 AT 05:00 CST ON JUN 28	5.24 ON JUN 28	0 B ON DEC 6	20 700	1976
1977	2.83 AT 14:30 CST ON SEP 27	2.75 ON SEP 27	0.0038 ON FEB 16	8 820	1977
1978	18.5 AT 23:00 CST ON APR 19	17.8 ON APR 19	0.0378 ON MAR 9	38 500	1978
1979	27.3 AT 18:30 CST ON APR 20	26.6 ON APR 22	0.020 ON SEP 21	61 200	1979
1980	5.24 AT 03:00 CST ON APR 7	4.81 B ON APR 7	0 ON JUL 10	6 030	1980
1981	8.83 AT 17:30 CST ON JUN 16	7.73 ON JUN 16	0.0228 ON JAN 28	34 200	1981
				52 100	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STEEPROCK RIVER NEAR MAFEKING - STATION NO. OSLF001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	1.33	7.59	12.8	3.86	3.30	3.85	3.16	2.83	---	---	1954
1955	---	---	1.19	4.53	10.2	2.37	1.59	0.416	0.391	0.887	---	---	2.70	1955
1956	---	---	0.512	0.793	5.69	4.21	3.39	0.953	0.797	0.770	---	---	2.52	1956
1957	---	---	0.066	2.05	7.91	2.65	0.807	0.575	1.67	0.561	---	---	2.02	1957
1958	---	---	0.483	2.42	2.77	1.70	11.7	0.953	1.69	1.65	---	---	2.96	1958
1959	---	---	---	1.47	4.07	7.70	2.90	0.979	5.48	3.34	---	---	---	1959
1960	---	---	0.874	2.10	5.53	4.29	1.41	1.09	1.04	1.26	---	---	2.21	1960
1961	---	---	0.500	1.02	2.35	0.785	0.237	0.254	0.256	0.263	---	---	0.710	1961
1962	---	---	0.062	1.04	4.31	0.825	0.189	0.173	1.06	0.516	---	---	1.02	1962
1963	---	---	0.274	2.32	3.70	5.26	1.66	0.755	0.802	0.577	---	---	1.95	1963
1964	---	---	---	1.64	7.74	2.23	1.90	4.01	3.50	2.27	---	---	---	1964
1965	---	---	0.378	1.16	11.5	5.05	1.75	1.09	4.96	3.02	---	---	3.62	1965
1967	---	---	0.744	1.36	10.7	4.38	2.08	1.66	0.673	0.859	---	---	2.84	1967
1968	---	---	0.315	1.08	5.00	5.67	8.44	8.73	2.66	2.87	---	---	4.55	1968
1969	---	---	0.756	2.66	2.15	1.65	1.73	1.44	1.93	5.02	---	---	2.19	1969
1970	---	---	0.496	1.07	7.38	4.25	5.02	1.42	1.40	3.78	---	---	3.11	1970
1971	---	---	0.776	2.96	5.07	4.09	3.17	1.70	2.18	3.13	---	---	2.88	1971
1972	---	---	0.735	2.33	6.81	2.62	2.88	1.17	0.864	0.828	---	---	2.54	1972
1973	---	---	0.537	0.880	4.02	11.5	3.71	1.67	1.64	1.61	---	---	3.17	1973
1974	---	---	0.323	2.52	11.0	4.38	2.78	1.48	3.39	2.28	---	---	3.52	1974
1975	---	---	0.880	1.51	5.18	5.38	2.48	4.81	4.80	3.50	---	---	3.84	1975
1976	---	---	0.877	2.28	1.68	8.26	2.08	0.897	0.586	0.850	---	---	2.12	1976
1977	---	---	0.550	2.97	2.41	0.802	2.41	5.70	6.76	4.36	---	---	3.24	1977
1978	---	---	0.601	1.76	4.86	1.76	1.07	0.802	1.76	3.42	---	---	2.02	1978
1979	---	---	0.854	1.28	10.1	6.81	2.68	1.79	1.42	1.20	---	---	3.24	1979
1980	---	---	0.830	3.14	1.38	0.806	0.784	3.20	2.82	2.34	---	---	1.86	1980
1981	---	---	0.816	1.26	1.86	2.88	3.79	1.40	1.71	3.29	---	---	2.13	1981
1982	---	---	0.583	1.46	3.68	3.51	5.02	2.15	1.46	1.73	---	---	2.46	1982
1983	---	---	0.882	1.82	9.58	8.28	6.05	2.49	3.46	2.38	---	---	4.32	1983
1984	---	---	0.902	4.48	8.88	7.50	3.07	1.63	2.18	6.32	---	---	4.48	1984
1985	---	---	0.858	4.11	5.95	6.89	3.68	7.26	3.41	3.67	---	---	4.50	1985
1986	---	---	0.730	2.87	6.05	3.86	2.64	1.43	2.20	2.88	---	---	2.78	1986
1987	---	---	0.788	3.40	2.33	2.73	4.84	2.47	2.12	4.01	---	---	2.85	1987
1988	---	---	0.821	2.28	17.7	3.16	2.41	1.40	1.35	1.17	---	---	3.61	1988
MEAN	---	---	0.610	2.10	6.31	4.48	3.10	2.09	2.33	2.35	2.83	---	2.84	MEAN

LOCATION - LAT 52 43 40 N DRAINAGE AREA, 301 km²
LONG 101 08 45 W REGULATED SINCE 1958

STEEPROCK RIVER NEAR MAFEKING - STATION NO. OSLF001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	40.7 ON JUN 9	---	---	1954
1955	---	46.4 ON MAY 6	0.085 ON SEP 13	57 200	1955
1956	---	19.2 ON MAY 23	0.227 ON AUG 28	53 400	1956
1957	---	15.2 ON MAY 7	0.0578 ON MAR 11	42 800	1957
1958	---	136 ON JUL 6 *	0.3688 ON MAR 1	82 600	1958
1959	---	68.9 ON SEP 2	---	---	1959
1960	---	17.6 ON MAY 14	0.725 ON AUG 28	46 700	1960
1961	---	4.50 ON MAY 19	0.184 ON JUL 9	15 000	1961
1962	---	7.42 ON MAY 16	0 8 ON MAR 1 *	21 600	1962
1963	---	12.2 ON JUN 12	0.1228 ON MAR 10	41 200	1963
1964	---	60.8 ON MAY 7	---	---	1964
1965	---	63.8 B ON MAY 6	0.3408 ON MAR 23	76 700	1965
1967	---	36.2 ON MAY 25	0.609 ON SEP 1	60 100	1967
1968	---	74.5 ON JUL 21	0.1338 ON MAR 1	96 300	1968
1969	---	18.1 ON OCT 3	0.742 ON AUG 15	46 400	1969
1970	---	15.5 ON OCT 25	0.4888 ON MAR 1	65 900	1970
1971	---	23.4 ON JUN 6	0.716 ON SEP 11	61 000	1971
1972	---	15.7 ON MAY 13	0.566 ON SEP 11	53 700	1972
1973	94.3 AT 22:44 CST ON JUN 18 *	58.6 ON JUN 19	0.4768 ON MAR 1	67 200	1973
1974	52.1 AT 01:00 CST ON MAY 22	38.8 ON MAY 22	0.2668 ON MAR 1	74 600	1974
1975	---	23.7 A ON SEP 19	0.5728 ON APR 6	77 200	1975
1976	89.5 AT 00:36 CST ON JUN 14	56.9 ON JUN 13	0.456 ON OCT 1	44 900	1976
1977	32.6 AT 18:36 CST ON AUG 10	20.6 ON AUG 10	0.360 ON JUN 28	58 800	1977
1978	13.8 AT 20:50 CST ON MAY 3	12.1 ON MAY 3	0.521 ON AUG 31	42 800	1978
1979	49.5 AT 12:04 CST ON MAY 27	36.4 ON MAY 27	0.6198 ON MAR 1	66 600	1979
1980	20.7 AT 04:36 CST ON AUG 5	11.6 ON APR 22	0.381 ON AUG 2	39 400	1980
1981	35.8 AT 10:58 CST ON JUL 16	23.3 ON JUL 16	0.4288 ON MAR 1	45 200	1981
1982	67.3 AT 18:52 CST ON JUL 17	30.3 ON JUL 18	0.5108 ON APR 1	52 000	1982
1983	37.7 AT 09:02 CST ON JUN 3	31.7 ON JUN 3	0.5908 ON MAR 1	91 500	1983
1984	49.1 AT 04:30 CST ON MAY 17	31.4 ON MAY 17	0.6578 ON MAR 1	95 100	1984
1985	90.0 ON AUG 13	51.9 E ON AUG 13	0.8318 ON MAR 1	95 300	1985
1986	17.3 AT 18:17 CST ON SEP 26	12.8 ON SEP 26	0.5888 ON MAR 11	58 800	1986
1987	19.0 AT 18:31 CST ON JUL 6	13.9 ON JUL 7	0.6848 ON MAR 1	60 200	1987
1988	77.7E AT 18:46 CST ON MAY 1	53.0 A ON MAY 1	0.6508 ON MAR 1	80 600	1988
				60 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BEDE - STATION NO. 05NG004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1938	---	---	---	---	0.025	---	---	---	---	---	---	---	---	1938
1965	---	---	0	1.35	0.068	0.067	0.005	0.104	0.157	0.204	---	---	0.243	1965
1966	---	---	0.239	1.28	0.527	0.012	0.036	0	0	0	---	---	0.259	1966
1967	---	---	0	0.114	0.233	0	0	0	0	0	---	---	0.044	1967
1968	---	---	0.142	0.011	0	0	0	0	0	0	---	---	0.019	1968
1969	---	---	0	3.14	0.367	0	1.29	0.060	0	0	---	---	0.802	1969
1970	---	---	0	2.81	3.38	0.080	0	0	0	0	---	---	0.782	1970
1971	---	---	0	0.210	0.047	1.32	0.321	0	0	0	--	---	0.234	1971
1972	---	---	1.22	1.19	0.182	0.076	0	0	0	0	---	---	0.330	1972
MEAN	---	---	0.200	1.28	0.534	0.194	0.207	0.021	0.020	0.028	---	---	0.315	MEAN

LOCATION - LAT 49 27 18 N DRAINAGE AREA, 630 km²
LONG 100 57 44 W NATURAL FLOW

STONY CREEK NEAR BEDE - STATION NO. 05NG004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1938	---	---	---	---	1938
1965	---	5.27 ON APR 14	0B ON MAR 1 *	5 150	1965
1966	---	4.67 ON APR 3	0B ON MAR 1	5 490	1966
1967	---	0.966 ON MAY 4	0B ON MAR 1	922	1967
1968	---	0.9818 ON MAR 24	0B ON MAR 1	404	1968
1969	---	19.8 ON APR 16 *	0B ON MAR 1	12 700	1969
1970	---	9.85 ON MAY 2	0B ON MAR 1	18 800	1970
1971	---	5.66 ON JUN 10	0B ON MAR 1	4 950	1971
1972	---	4.56 B ON MAR 23	0B ON MAR 1	8 980	1972
				5 580	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR BROOMHILL - STATION NO. 05NS018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	1.12	0.059	0.082	0.105	0.076	0.147	0.172	---	---	0.218	1965
1966	---	---	0.237	0.988	0.417	0.012	0.032	0	0	0	---	---	0.207	1966
1967	---	---	0	0.183	0.214	0	0	0	0	0	---	---	0.048	1967
1968	---	---	0.092	0.012	0	0	0	0	0	0	---	---	0.013	1968
1969	---	---	0	2.32	0.270	0.001	0.729	0.015	0	0	---	---	0.426	1969
1970	---	---	0	2.99	1.86	0.088	0.021	0	0	0	---	---	0.818	1970
1971	---	---	0	0.141	0.031	0.201	0.078	0	0	0	---	---	0.055	1971
1972	---	---	0.838	0.953	0.103	0.030	0	0	0	0	---	---	0.239	1972
1973	---	---	0	0	0	0	0	0	0	0	---	---	0	1973
1974	---	---	0	4.80	0.734	0.177	0.018	0	0	0	---	---	0.717	1974
1975	---	---	0	4.51	1.33	0.415	0.042	0.005	0.455	0.431	---	---	0.887	1975
1976	---	---	0	14.5	0.478	0.291	0.043	0	0	0	---	---	1.88	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0	0	0	0	0	0	0	---	---	0	1978
1979	---	---	0	0.954	0.486	0.027	0	0	0	0	---	---	0.179	1979
1980	---	---	0	0	0	0	0	0	0	0	---	---	0	1980
1981	---	0.011	0	0	0	0	0	0	0	0	---	---	0	1981
1982	---	---	0	0.525	0	0	0	0	0	0	---	---	0.084	1982
1983	---	---	0	1.14	0.083	0.003	0	0	0	0	---	---	0.151	1983
1984	---	---	0.002	0	0	0	0	0	0	0	---	---	0	1984
1985	---	---	0.348	0.202	0	0	0	0	0	0.011	---	---	0.069	1985
1986	---	---	0.411	0.182	0.455	0.001	0	0	0	0	---	---	0.132	1986
1987	---	---	0.258	0.754	0	0	0	0	0	0	---	---	0.125	1987
1988	---	---	0	0	0	0	0	0	0	0	---	---	0	1988
MEAN	---	0.011	0.091	1.61	0.278	0.056	5.044	0.004	0.025	0.026	---	---	5.251	MEAN

LOCATION - LAT 49 23 52 N DRAINAGE AREA, 476 km²
LONG 101 05 54 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.050 AND 0 m^3/s OCCURRED IN FEBRUARY

STONY CREEK NEAR BROOMHILL - STATION NO. 05NG019

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1985	---	5.27 ON APR 13	00 ON MAR 1 *	4 810	1985
1986	---	4.22 ON APR 3	00 ON MAR 1	4 380	1986
1987	---	0.906 ON MAY 2	00 ON MAR 1	1 050	1987
1988	---	0.9068 ON MAR 24	00 ON MAR 1	278	1988
1989	---	17.0 ON APR 16	00 ON MAR 1	8 020	1989
1970	---	14.6 ON APR 30	00 ON MAR 1	13 100	1970
1971	---	1.58 ON JUN 14	00 ON MAR 1	1 170	1971
1972	---	3.11 B ON MAR 21	00 ON MAR 1	5 080	1972
1973	---	0.0038 ON MAR 13	00 ON MAR 1	1.04	1973
1974	---	20.7 ON APR 16	00 ON MAR 1	15 260	1974
1975	---	16.8 ON APR 28	00 ON MAR 1	16 800	1975
1976	---	94.7 B ON APR 10 *	00 ON MAR 1	39 900	1976
1977	---	0 B ON MAR 1	00 ON MAR 1	0	1977
1978	---	0 B ON MAR 1	00 ON MAR 1	0	1978
1979	---	8.71 ON APR 25	00 ON MAR 1	3 780	1979
1980	---	0 ON MAR 1	0 ON MAR 1	0	1980
1981	---	0.0028 ON MAR 1	00 ON MAR 3	0.26	1981
1982	3.43 AT 05:43 CST ON APR 15	3.13 ON APR 15	00 ON MAR 1	1 350	1982
1983	3.87 AT 20:33 CST ON APR 12 *	3.74 ON APR 24	00 ON MAR 1	3 190	1983
1984	---	0.022A ON MAR 25	00 ON MAR 1	5.95	1984
1985	1.69 AT 02:00 CST ON MAR 25	1.61 ON MAR 25	00 ON MAR 1	1 450	1985
1986	2.69 AT 12:28 CST ON MAY 9	2.45 ON MAY 9	00 ON MAR 10	2 790	1986
1987	3.59 AT 13:10 CST ON APR 3	2.78 ON APR 5	00 ON MAR 1	2 840	1987
1988	---	0 ON MAR 1	0 ON MAR 1	0	1988
				5 330	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

STONY CREEK NEAR NEEPAWA - STATION NO. 05LL008

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.762	6.306	5.081	0.024	0	0	0.003	5.080	---	---	0.155	1959
1960	---	---	0	5.31	0.657	0.214	0.014	0	0	0.028	---	---	0.765	1960
1961	---	---	0.010	0.263	0.159	0.009	0	0	0	---	---	---	0.057	1961
1962	---	---	0	1.99	0.159	0.037	0.137	0.141	0.054	0.051	---	---	0.318	1962
1963	---	---	1.17	0.993	0.180	0.890	0.838	0.010	0.009	0.008	---	---	0.485	1963
1964	---	---	0	0.951	0.304	0.035	0.011	0.003	0.007	0.025	---	---	0.165	1964
1965	---	---	0	4.31	0.599	0.329	0.803	0.294	0.535	0.130	---	---	0.864	1965
1966	---	---	0.334	1.94	0.667	0.241	0.108	0.026	0.001	0.026	---	---	0.417	1966
1967	---	---	0.014	3.86	0.424	0.057	0.010	0	0	0.011	---	---	0.537	1967
1968	---	---	0.857	0.405	0.125	0.044	0.038	0.038	0.046	0.043	---	---	0.200	1968
1969	---	---	0.017	5.31	0.379	0.496	1.70	0.186	0.049	0.062	---	---	1.02	1969
1970	---	---	0.025	4.82	4.30	0.231	0.348	0.219	0.032	0.078	---	---	1.26	1970
1971	---	---	0	1.92	0.258	2.82	0.906	0.043	0.031	0.160	---	---	0.733	1971
1972	---	---	0.101	3.51	0.880	0.077	0.033	0.015	0.017	0.049	---	---	0.552	1972
1973	---	---	0.233	0.150	0.115	0.042	0.008	0.008	0.173	0.068	---	---	0.099	1973
1974	---	---	0.084	3.98	2.36	0.176	0.015	0.002	0.018	0.032	---	---	0.821	1974
1975	---	---	0.028	2.77	0.804	0.211	0.050	1.06	1.18	0.229	---	---	0.785	1975
1976	---	---	0.083	4.56	0.249	0.283	0.053	0.012	0.008	0.039	---	---	0.852	1976
1977	---	---	0.032	0.175	0.105	0.062	0.081	0.068	0.117	0.075	---	---	0.083	1977
1978	---	---	0.020	1.82	0.581	0.111	0.011	0.005	0.038	0.048	---	---	0.300	1978
1979	---	---	0.015	5.28	3.22	0.288	0.027	0.004	0.017	0.041	---	---	1.10	1979
1980	---	---	0	0.820	0.051	0.012	0.007	0.168	0.150	0.177	---	---	0.148	1980
1981	---	0.307	0.672	0.457	0.092	0.091	0.003	0.048	0.085	0.068	---	---	0.188	1981
1982	---	---	0.118	1.98	0.135	0.068	0.073	0.018	0.019	0.075	---	---	0.308	1982
1983	---	---	0.014	3.47	0.402	0.181	0.188	0	0.005	0.150	---	---	0.544	1983
1984	---	---	0.203	0.324	0.178	0.082	0.008	0	0.001	0.058	---	---	0.108	1984
1985	---	---	0.108	1.10	0.125	0.095	0.027	0.150	0.088	0.084	---	---	0.222	1985
1986	---	---	1.38	1.70	1.72	0.179	0.433	0.041	0.041	0.035	---	---	0.890	1986
1987	---	---	0.089	3.71	0.139	0.100	0.093	0.045	0.018	0.048	---	---	0.517	1987
1988	---	---	0.041	0.710	0.144	0.018	0.001	0	0.002	0.018	---	---	0.115	1988
MEAN	---	0.307	0.212	2.29	0.648	0.243	0.195	0.068	0.092	0.068	---	---	0.474	MEAN

LOCATION - LAT 50 13 55 N LONG 98 34 00 W DRAINAGE AREA, 183 km^2 NATURAL FLOW

REMARKS - PREVIOUS TO 1986 PUBLISHED UNDER THE NAME "NEEPAWA CREEK NEAR NEEPAWA"

STONY CREEK NEAR KEEPAWA - STATION NO. 05LL009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	6.12 B ON MAR 26	0 B ON MAR 1 *	3 280	1959
1960	---	16.5 ON APR 18	0 B ON MAR 1	16 200	1960
1961	---	0.963 ON APR 21	0 B ON MAR 1	1 210	1961
1962	---	12.5 ON APR 21	0 B ON MAR 1	6 740	1962
1963	---	8.38 ON MAR 29	0 B ON MAR 1	10 300	1963
1964	---	2.15 ON APR 14	0 B ON MAR 1	3 490	1964
1965	---	20.6 ON APR 13	0 B ON MAR 1	18 300	1965
1966	---	10.8 ON APR 3	0 B ON MAR 1	8 630	1966
1967	---	22.8 ON APR 16	0 ON JUL 13	11 400	1967
1968	---	5.10 B ON MAR 26	0 ON JUL 18	4 230	1968
1969	---	34.0 ON APR 13	0.009 ON JUN 23	21 600	1969
1970	---	25.0 ON APR 29	0 ON AUG 13	26 800	1970
1971	---	7.82 ON JUN 10	0 B ON MAR 1	15 500	1971
1972	---	11.0 B ON APR 17	0 B ON MAR 1	11 700	1972
1973	---	2.93 ON SEP 4	0 ON JUL 19	2 100	1973
1974	---	14.8 ON APR 21	0 ON JUL 25	17 300	1974
1975	---	16.9 ON APR 29	0.023E ON JUL 28	16 800	1975
1976	13.7 AT 03:21 CST ON APR 10	12.7 ON APR 9	0 ON JUL 27	13 800	1976
1977	---	0.418 ON SEP 25	0 B ON MAR 1	1 890	1977
1978	10.5 AT 11:20 CST ON MAY 25	4.84 B ON APR 18	0 ON AUG 9	8 380	1978
1979	48.1 AT 16:30 CST ON APR 21 *	35.0 ON APR 21 *	0 ON AUG 19	23 300	1979
1980	5.04 AT 17:30 CST ON APR 4	2.22 B ON APR 4	0 B ON MAR 1	3 130	1980
1981	3.17 AT 03:08 CST ON AUG 31	1.22 ON AUG 21	0 ON JUL 8	4 010	1981
1982	8.428 AT 21:35 CST ON APR 15	7.78 B ON APR 15	0 B ON MAR 1	9 470	1982
1983	---	16.9 B ON APR 21	0 B ON APR 8	11 500	1983
1984	2.75 AT 17:42 CST ON MAY 5	1.13 B ON MAR 26	0 B ON MAR 9	2 240	1984
1985	3.268 AT 12:26 CST ON APR 13	2.25 B ON APR 13	0 B ON MAR 1	4 890	1985
1986	12.4 B AT 00:04 CST ON MAR 30	10.6 B ON MAR 30	0.004 ON SEP 9	14 800	1986
1987	24.8 AT 11:05 CST ON APR 7	21.2 ON APR 7	0.001 ON JUL 30	10 900	1987
1988	---	3.10 E ON APR 3	0 B ON MAR 1	2 430	1988
				10 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1981	---	---	0.848	3.34	---	---	---	---	---	---	---	---	---	1981
1982	---	---	0	1.09	0.680	0.327	0.414	8.79	1.78	0.381	0.310	---	1.43	1982
1983	---	---	1.58	11.2	1.43	4.36	0.210	0.481	0.062	0.021	---	---	2.38	1983
1984	---	---	0	3.48	0.181	0.177	0.093	0.036	0.029	0.033	---	---	0.495	1984
1985	---	---	0	5.82	0.498	0.118	0.110	0.038	0.083	0.041	---	---	0.810	1985
1986	---	---	0.139	9.05	2.42	0.078	0.475	0.082	0.049	0.041	---	---	1.62	1986
1987	---	---	0.018	7.58	0.588	0.033	0.085	0.058	0.028	0.031	---	---	1.04	1987
1988	---	---	0.975	2.13	0.082	0.038	0.181	2.99	0.603	0.368	---	---	0.943	1988
1989	---	---	0.001	12.5	2.83	2.31	1.92	0.833	0.197	0.103	---	---	2.51	1989
1970	---	---	0.032	17.8	5.77	1.27	0.939	0.047	0.045	0.884	---	---	3.32	1970
1971	---	---	0	10.2	0.288	0.237	0.143	0.027	0.012	0.039	---	---	1.35	1971
1972	---	---	0.073	11.1	0.184	0.042	0.088	0.250	0.038	0.826	---	---	1.44	1972
1973	---	---	1.83	0.223	0.082	0.080	0.084	0.022	0.177	0.861	---	---	0.315	1973
1974	---	---	0.037	22.5	10.1	0.184	0.842	0.102	0.034	0.035	---	---	4.09	1974
1975	---	---	0.031	3.01	0.305	0.082	0.057	0.037	0.049	0.052	---	---	0.447	1975
1976	---	---	0.099	9.84	0.039	0.157	0.088	0.048	0.025	0.026	---	---	1.27	1976
1977	---	---	0.074	0.773	1.07	0.140	0.183	0.077	0.080	0.088	---	---	0.302	1977
1978	---	---	0.160	13.0	1.38	0.256	0.054	0.101	0.114	0.093	---	---	1.87	1978
1979	---	---	0	22.0	7.72	0.747	0.324	0.285	0.297	0.172	---	---	3.88	1979
1980	---	---	0.027	2.85	0.039	0.078	0.045	0.087	0.155	0.084	---	---	0.388	1980
1981	---	---	1.38	0.434	0.010	0.014	0.016	0.018	0.006	0.021	---	---	0.239	1981
1982	---	---	0.311	2.38	0.201	0.023	0.116	0.030	0.019	0.104	---	---	0.515	1982
1983	---	---	2.48	13.7	0.102	1.24	0.004	0.018	0.016	0.085	---	---	2.17	1983
1984	---	---	0.312	0.497	0.077	2.52	0.082	0.004	0.048	0.122	---	---	0.451	1984
1985	---	---	5.01	4.92	0.364	0.178	0.101	1.88	0.078	0.048	---	---	1.67	1985
1986	---	---	2.57	8.56	4.96	0.188	5.48	0.335	0.208	0.018	---	---	3.16	1986
1987	---	---	0.048	13.3	0.022	0.144	0.183	1.48	0.037	0.064	---	---	1.47	1987
1988	---	---	0.108	0.804	0.013	0.041	0.018	0.001	0.028	0.021	---	---	0.128	1988
MEAN	---	---	0.641	7.71	1.63	0.559	0.422	0.588	0.183	0.078	0.310	---	1.48	MEAN

LOCATION - LAT 49 52 52 N DRAINAGE AREA, 576 km^2
LONG 97 16 43 W NATURAL FLOW

STURGEON CREEK AT ST. JAMES - STATION NO. 05MJ004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1981	---	---	0 B ON MAR 1 *	---	1981
1982	---	18.3 E ON AUG 24	0 B ON MAR 1	30 200	1982
1983	---	19.3 ON JUN 4	0 B ON MAR 1	50 300	1983
1984	---	11.2 B ON APR 18	0 B ON MAR 1	10 500	1984
1985	---	12.7 B ON APR 14	0 B ON MAR 1	17 200	1985
1986	---	32.3 B ON APR 13	0 B ON MAR 1	32 300	1986
1987	---	23.5 B ON APR 20	0 B ON MAR 1	22 200	1987
1988	---	15.8 ON AUG 24	0 ON MAR 1	20 000	1988
1989	---	35.1 ON APR 10	0 B ON MAR 1	53 200	1989
1970	---	50.4 ON APR 25	0 B ON MAR 1	70 400	1970
1971	---	42.5 ON APR 11	0 B ON MAR 1	28 500	1971
1972	---	41.9 ON APR 17	0.003 ON JUN 8	30 500	1972
1973	---	7.14 ON MAR 26	0 B ON MAR 1	5 880	1973
1974	---	82.7 ON APR 21 *	0.018 ON SEP 20	68 400	1974
1975	---	10.3 ON APR 17	0 E ON JUN 21	9 470	1975
1976	---	37.7 ON APR 9	0.003 ON AUG 26	26 800	1976
1977	---	12.8 ON MAY 5	0.014B ON MAR 25	6 390	1977
1978	---	39.8 ON APR 14	0.003B ON MAR 1	39 800	1978
1979	---	83.2 A ON APR 24	0 B ON MAR 1	62 400	1979
1980	---	10.4 B ON APR 10	0 B ON MAR 1	8 210	1980
1981	---	3.00B ON MAR 17	0 ON APR 10	5 080	1981
1982	---	15.6 B ON APR 13	0 B ON MAR 1	10 800	1982
1983	46.99 AT 18:12 CST ON APR 5	43.7 ON APR 6	0 B ON MAR 1	45 800	1983
1984	25.5 AT 18:10 CST ON JUN 21	14.3 ON JUN 22	0 ON AUG 29	9 540	1984
1985	---	26.5 A ON MAR 29	0 B ON MAR 1	33 200	1985
1986	55.4 AT 23:08 CST ON APR 1 *	52.6 ON APR 2	0 ON OCT 8	67 000	1986
1987	---	60.2 ON APR 8	0.002 ON MAY 4	38 600	1987
1988	---	6.32A ON APR 4	0 ON APR 22	2 710	1988
				31 300	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.014	9.80	0.868	0.173	0.044	0.001	0	0	---	---	1.35	1978
1979	---	---	0	16.8	6.50	0.507	0.185	0	0	0	---	---	2.94	1979
1980	---	---	0	2.16	0.033	0	0.005	0.528	0.097	0.038	---	---	0.269	1980
1981	---	---	1.12	0.218	0.045	0.538	0.047	0.021	0.028	0.049	---	---	0.197	1981
1982	---	---	0.710	2.09	0.088	0.008	0.051	0.518	0.034	0.108	---	---	0.506	1982
1983	---	---	1.49	10.5	0.183	0.785	0.074	0.078	0.014	0.036	---	---	1.81	1983
1984	---	---	0.277	0.431	0.068	1.46	0.139	0.017	0.037	0.122	---	---	0.312	1984
1985	---	---	3.74	3.08	0.463	0.565	0.010	1.00	0.367	0.317	---	---	1.13	1985
1986	---	---	2.88	8.04	5.78	0.106	4.85	0.051	0.044	0.038	---	---	2.70	1986
1987	---	---	0.458	11.3	0.046	0.037	0.044	0.948	0.069	0.057	---	---	1.59	1987
1988	---	---	0.040	1.01	0.035	0.034	0.015	0.007	0.014	0.014	---	---	0.143	1988
MEAN	---	---	0.874	6.02	1.29	0.291	0.476	0.197	0.065	0.070	---	---	1.16	MEAN

LOCATION - LAT 49 55 20 N
LONG 97 20 40 W
DRAINAGE AREA, 643 km^2
NATURAL FLOW

STURGEON CREEK NEAR PERIMETER HIGHWAY - STATION NO. 05MJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	34.0 B AT 10:57 CST ON APR 14	30.6 B ON APR 14	0 B ON MAR 1 *	28 800	1978
1979	83.3 B AT 03:54 CST ON APR 23 *	82.7 B ON APR 23	0 B ON MAR 1	62 300	1979
1980	---	7.56B ON APR 11	0 B ON MAR 1	8 120	1980
1981	3.28 AT 14:57 CST ON MAR 27	3.13 ON MAR 28	0 ON MAY 16	4 160	1981
1982	---	10.2 B ON APR 13	0 B ON MAR 1	10 700	1982
1983	37.6 B AT 15:56 CST ON APR 5	35.8 B ON APR 5	0 B ON MAR 1	34 100	1983
1984	11.1 AT 14:31 CST ON JUN 22	9.47 ON JUN 22	0 ON APR 17	6 800	1984
1985	---	17.8 B ON MAR 28	0 B ON MAR 1	24 000	1985
1986	44.7 B AT 14:17 CST ON APR 1	40.4 B ON APR 1	0 B ON MAR 1	57 100	1986
1987	---	53.8 ON APR 8 *	0.008B ON MAR 1	33 700	1987
1988	---	5.10B ON APR 4	0 ON AUG 8	3 838	1988
				24 800	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN CREEK NEAR LUNDAR - STATION NO. 05LN003

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	0	2.82	1.43	0.384	0.125	0.008	0	0	---	---	0.590	1960
1961	---	---	0.078	0.190	0.108	0.001	0	0	0.006	0	---	---	0.048	1961
1962	---	---	0	0.419	0.107	0.084	0	0.027	0.003	0	---	---	0.079	1962
1963	---	---	0.158	3.51	0.803	4.77	2.00	0.754	0.191	0.076	---	---	1.74	1963
1964	---	---	0	0.308	0.228	0.008	0	0	0	0	---	---	0.068	1964
1965	---	---	0	0.757	1.32	0.782	0.138	0.036	0.020	0.013	---	---	0.378	1965
1966	---	---	0.234	1.78	1.91	0.143	0.014	0	0	0	---	---	0.509	1966
1967	---	---	0	1.43	0.485	0.029	0.001	0	0	0	---	---	0.241	1967
1968	---	---	0.032	0.191	0.067	0.080	0.008	0.044	0.829	0.131	---	---	0.170	1968
1969	---	---	0	1.83	0.298	0.086	0.039	0.218	0.012	0.013	---	---	0.304	1969
1970	---	---	0	1.19	1.28	0.201	0.059	0.003	0.001	0.001	---	---	0.341	1970
1971	---	---	0	0.467	0.117	0.013	0.031	0	0	0.001	---	---	0.080	1971
1972	---	---	0	0.708	0.108	0.010	0	0.001	0	0	---	---	0.102	1972
1973	---	---	0.055	0.009	0.009	0.333	0.034	0.020	0.015	0.055	---	---	0.065	1973
1974	---	---	0	4.52	11.0	2.84	0.204	0.057	0.032	0.015	---	---	2.35	1974
1975	---	---	0	0.390	0.718	0.324	0.055	5.16	7.82	4.83	---	---	2.39	1975
1976	---	---	0.142	18.1	5.50	1.04	0.430	0.036	0.005	0.006	---	---	2.86	1976
1977	---	---	0.019	0.092	0.123	0.182	0.260	0.060	0.221	0.241	---	---	0.180	1977
1978	---	---	0	1.82	0.873	0.147	0.285	0.007	0.018	0.006	---	---	0.367	1978
1979	---	---	0	5.06	7.56	3.80	0.842	0.094	0.032	0.023	---	---	2.14	1979
1980	---	---	0	0.490	0.074	0.024	0.072	0.874	0.523	0.271	---	---	0.285	1980
1981	---	---	0.202	0.371	0.062	0.035	0.480	0.005	0.018	0.103	---	---	0.180	1981
1982	---	---	0.014	0.680	0.419	0.386	0.227	0.053	0.011	0.018	---	---	0.220	1982
1983	---	---	0.011	1.84	0.388	0.170	0.178	0.017	0.146	0.535	---	---	0.382	1983
1984	---	---	0.023	0.028	0.028	0.028	0.015	0	0.005	0.033	---	---	0.020	1984
1985	---	---	0.175	0.701	0.060	0.024	0.003	0.280	0.284	0.388	---	---	0.233	1985
1986	---	---	0.824	7.63	10.3	1.28	0.978	0.432	0.043	0.080	---	---	2.84	1986
1987	---	---	0.072	1.44	0.145	0.026	0.015	0.040	0.002	0.002	---	---	0.215	1987
1988	---	---	0.023	0.184	0.184	0.012	0.013	0.001	0.002	0	---	---	0.048	1988
MEAN	---	---	0.057	1.98	1.56	0.557	0.228	0.277	0.345	0.235	---	---	0.861	MEAN

LOCATION - LAT 50 43 17 N DRAINAGE AREA, 745 km²
LONG 98 05 24 W NATURAL FLOW

REMARKS - PREVIOUS TO 1988 PUBLISHED UNDER THE NAME "BURNT LAKE DRAIN NO. 2 NEAR LUNDAR"

SWAN CREEK NEAR LUNDAR - STATION NO. 05LN003

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1960	---	7.05 ON APR 19	0 B ON MAR 1 *	13 500	1960
1961	---	0.388 ON APR 1	0 B ON MAR 1	1 010	1961
1962	---	3.62 B ON APR 20	0 B ON MAR 1	1 670	1962
1963	---	18.2 ON JUN 11	0 B ON MAR 1	36 700	1963
1964	---	1.01 ON APR 18	0 B ON MAR 1	1 440	1964
1965	---	5.21 ON MAY 27	0 B ON MAR 1	8 060	1965
1966	---	6.35 B ON APR 1	0 B ON MAR 1	10 500	1966
1967	---	5.46 B ON APR 22	0 B ON MAR 1	5 100	1967
1968	---	2.62 ON SEP 3	0 B ON MAR 1	3 610	1968
1969	---	8.14 ON APR 12	0 B ON MAR 1	8 450	1969
1970	---	3.99 B ON APR 18	0 B ON MAR 1	7 220	1970
1971	---	2.13 ON APR 18	0 B ON MAR 1	1 690	1971
1972	---	3.17 ON APR 16	0 B ON MAR 1	2 160	1972
1973	---	1.36 ON JUN 20	0 B ON MAR 1	1 380	1973
1974	---	14.4 ON MAY 22	0 B ON MAR 1	49 600	1974
1975	---	14.2 ON AUG 25	0 B ON MAR 1	50 500	1975
1976	---	27.8 ON APR 18 *	0.0018 ON OCT 28	60 900	1976
1977	---	0.588 ON SEP 9	0 B ON MAR 1	3 170	1977
1978	---	3.45 ON APR 15	0 B ON MAR 1	7 750	1978
1979	19.8 AT 02:15 CST ON APR 21 *	16.5 ON APR 21	0 B ON MAR 1	45 400	1979
1980	7.03 AT 12:30 CST ON AUG 21	5.78 ON AUG 21	0 B ON MAR 1	5 810	1980
1981	6.76 AT 04:46 CST ON JUL 3	4.15 ON JUL 3	0 B ON MAR 1	3 380	1981
1982	2.65 B AT 08:44 CST ON APR 15	2.27 B ON APR 15	0 B ON MAR 1	4 850	1982
1983	4.33 B AT 16:53 CST ON APR 6	3.87 B ON APR 7	0 B ON MAR 1	8 090	1983
1984	0.3418 AT 09:19 CST ON MAR 31	0.1558 ON MAR 31	0 B ON MAR 1	420	1984
1985	3.13 AT 14:30 CST ON APR 5	2.32 ON APR 5	0 B ON MAR 1	4 940	1985
1986	18.5 AT 17:59 CST ON MAY 6	18.7 ON MAY 6	0 B ON MAR 1	55 900	1986
1987	7.03 AT 08:30 CST ON APR 5	7.09 B ON APR 6	0 B ON MAR 1	4 540	1987
1988	1.05 B AT 16:24 CST ON APR 3	0.8898 ON APR 3	0 B ON MAR 1	978	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		14 000	MEAN

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	11.3	2.83	---	1912
1913	1.98	1.42	1.42	53.8	29.8	13.8	51.8	15.3	7.10	4.78	2.83	1.42	15.3	1913
1914	1.13	1.13	0.850	34.1	44.5	6.48	1.44	0.834	0.921	1.40	1.13	0.566	7.88	1914
1915	0	0	0.386	11.3	2.30	2.71	5.72	2.11	1.12	1.70	1.14	0.283	2.40	1915
1916	0.491	0.356	0.386	14.7	14.7	46.4	16.0	3.68	2.46	3.67	2.13	0.510	8.82	1916
1917	0.184	0.094	0.116	15.7	41.1	11.4	18.2	2.45	1.68	1.36	1.63	0.954	7.89	1917
1918	0.388	0.122	5.66	12.9	8.18	23.3	28.5	6.86	3.51	3.35	2.00	0.866	7.98	1918
1919	0.361	0.291	0.262	20.1	12.0	4.18	4.67	2.91	5.23	5.88	2.21	0.212	4.86	1919
1920	---	---	---	53.0	66.0	15.9	4.59	1.53	1.34	2.62	---	---	---	1920
1921	---	---	---	45.2	27.2	21.6	11.3	15.1	13.6	14.9	9.91	2.62	---	1921
1922	1.42	0.850	0.708	74.2	102	14.2	5.66	6.20	5.34	4.74	4.67	0.991	18.7	1922
1923	0.566	0.425	1.42	61.2	64.5	46.7	29.6	8.30	2.90	3.12	1.31	1.08	17.6	1923
1924	0.903	0.691	0.807	14.3	12.8	5.87	2.43	10.1	2.25	2.87	1.46	0.844	4.80	1924
1925	0.448	0.137	0.827	82.4	14.7	31.0	18.3	3.98	3.60	2.95	1.76	0.780	13.4	1925
1926	0.388	0.180	0.818	48.4	10.8	10.9	2.86	0.491	0.800	3.25	3.59	0.897	8.86	1926
1927	0.580	0.303	0.802	47.8	57.3	33.9	17.5	7.07	12.0	9.40	4.89	1.85	18.1	1927
1928	0.727	0.324	8.85	9.85	11.8	5.28	12.8	2.81	1.80	1.37	0.708	0.227	4.54	1928
1929	0.017	0.006	0.237	7.08	6.18	3.58	3.18	0.868	0.593	0.845	---	---	---	1929
1930	---	---	---	---	---	8.03	9.35	4.62	1.17	1.35	1.12	---	---	1930
1931	---	---	---	---	---	2.75	1.25	1.34	0.584	1.52	3.00	---	---	1931
1932	---	---	---	---	19.8	5.12	2.75	8.45	1.25	1.19	1.37	---	---	1932
1933	---	---	---	---	23.1	17.5	18.5	11.0	1.58	2.28	2.84	---	---	1933
1934	---	---	---	---	---	38.7	11.2	5.42	1.33	1.07	1.61	---	---	1934
1935	---	---	---	---	---	5.79	23.1	9.88	1.58	1.08	1.71	---	---	1935
1936	---	---	---	---	---	32.0	10.8	4.88	0.748	0.453	---	---	---	1936
1950	---	---	---	---	---	---	---	---	8.14	1.82	1.83	2.76	0.974	---	1950
1951	0.835	0.585	0.838	23.1	43.8	13.6	7.33	5.21	15.8	17.5	8.26	2.18	11.7	1951
1952	0.932	0.861	0.744	44.7	19.0	8.52	5.74	3.53	2.59	1.92	1.45	0.840	7.50	1952
1953	0.817	0.554	0.589	31.8	21.3	25.1	48.2	19.2	18.6	5.90	5.41	2.14	14.9	1953
1954	1.15	1.13	1.06	23.4	51.0	76.4	18.0	3.53	10.2	7.13	4.81	2.18	18.6	1954
1955	0.723	0.926	0.868	49.1	51.8	8.75	4.01	0.776	0.480	1.15	1.06	0.886	10.1	1955
1956	0.585	0.566	0.685	13.4	98.4	15.2	14.6	3.88	2.77	1.40	1.36	0.918	10.3	1956
1957	0.804	0.388	0.348	50.6	37.4	7.81	3.88	1.22	1.49	1.47	1.20	0.826	6.86	1957
1958	0.481	0.314	0.760	8.06	2.83	2.01	3.12	0.623	0.217	1.88	0.948	0.431	1.88	1958
1959	0.133	0	0.466	9.89	8.86	3.78	4.88	0.815	3.80	8.62	3.89	1.24	3.41	1959
1960	0.883	0.551	0.515	44.6	20.8	12.8	2.76	1.26	0.388	---	---	---	---	1960
MEAN	0.847	0.480	1.10	33.1	27.8	16.2	11.7	4.26	3.81	3.83	3.26	1.11	9.71	MEAN

LOCATION - LAT 52 05 45 N DRAINAGE AREA, 4 080 km²
LONG 101 15 30 W NATURAL FLOW

SWAN RIVER AT SWAN RIVER - STATION NO. 05LE001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1912	---	---	---	---	1912
1913	---	138 ON APR 16	1.42 B ON FEB 1	514 000	1913
1914	---	113 ON MAY 7	0.311 ON AUG 19	248 000	1914
1915	---	32.3 ON APR 14	0 B ON JAN 1 *	75 700	1915
1916	---	77.3 ON JUN 11	0.3118 ON FEB 24	282 000	1916
1917	---	64.8 ON MAY 7	0.0268 ON MAR 1	252 000	1917
1918	---	88.0 ON JUL 4	0.0268 ON FEB 17	252 000	1918
1919	---	58.1 ON APR 14	0.0578 ON DEC 22	156 000	1919
1920	---	157 ON APR 26	---	---	1920
1921	---	83.0 ON APR 21	---	---	1921
1922	---	240 ON APR 26 *	0.7088 ON MAR 1	588 000	1922
1923	---	202 ON APR 23	0.4258 ON FEB 1	557 000	1923
1924	---	38.9 ON MAY 1	0.5388 ON MAR 14	146 000	1924
1925	---	225 ON APR 8	0.0578 ON FEB 26	423 000	1925
1926	---	126 B ON APR 19	0.0718 ON MAR 3	216 000	1926
1927	---	123 B ON APR 21	0.1848 ON FEB 19	508 000	1927
1928	---	43.0 ON JUL 6	0.1708 ON MAR 2	144 000	1928
1929	---	14.6 ON APR 28	---	---	1929
1930	---	---	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	41.1 ON APR 12	---	---	1933
1934	---	---	---	---	1934
1935	---	58.2 ON MAY 6	---	---	1935
1936	---	---	---	---	1936
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	89.5 ON MAY 2	0.5108 ON JAN 25	388 000	1952
1953	---	77.6 ON APR 9	0.4618 ON DEC 24	237 000	1953
1954	---	77.6 ON JUL 3	0.5388 ON FEB 6	471 000	1954
		116 ON JUN 20	0.9818 ON JAN 15	525 000	
1955	---	104 ON APR 9	0.388 ON SEP 10	317 000	1955
1956	---	115 ON MAY 5	0.5688 ON FEB 1	326 000	1956
1957	---	102 ON APR 23	0.3408 ON MAR 7	278 000	1957
1958	---	11.78 ON APR 3	0.057 ON SEP 10	53 000	1958
1959	---	26.38 ON APR 10	0 B ON JAN 19	108 000	1959
1960	---	84.1 ON APR 21	---	---	1960
				308 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	---	---	---	---	---	---	---	0.505	0.575	0.366	---	1960
1961	0.252	0.153	0.114	0.663	1.53	0.715	0.087	0.133	0.010	0.085	0.271	0.235	0.389	1961
1962	0.068	0	0.015	4.51	8.72	1.46	0.402	0.102	.25	0.801	0.849	0.381	1.57	1962
1963	0.089	0.008	0.142	22.6	2.37	2.46	2.51	1.13	0.547	0.541	0.621	0.389	2.77	1963
1964	0.331	0.435	0.545	10.2	11.8	1.09	1.20	1.51	4.96	5.04	2.41	1.16	3.39	1964
1965	0.804	0.639	0.557	15.6	14.8	35.0	5.85	2.78	3.40	5.09	1.92	1.11	7.27	1965
1966	0.840	0.733	0.708	48.3	19.2	15.5	16.5	5.26	4.45	1.45	1.53	1.19	9.83	1966
1967	0.983	0.819	0.759	7.90	46.1	8.78	0.961	0.790	0.192	0.754	0.152	0.280	5.76	1967
1968	0.184	0.232	2.62	7.40	1.73	3.20	3.51	7.55	5.19	1.85	1.19	0.537	2.84	1968
1969	0.471	0.586	0.684	22.0	4.83	2.27	2.82	1.00	0.794	4.92	1.70	0.783	3.54	1969
1970	0.413	0.434	0.543	20.2	25.8	10.1	13.4	4.07	1.18	3.85	13.2	2.83	8.02	1970
1971	1.18	0.947	0.842	57.2	15.4	5.50	1.63	1.78	0.328	2.64	2.81	1.65	8.44	1971
1972	0.892	0.727	0.861	50.8	58.1	5.00	3.52	0.998	0.343	0.742	0.236	0.007	10.2	1972
1973	0.002	0	1.18	8.84	5.71	14.5	10.4	1.84	0.801	1.29	1.07	0.858	3.71	1973
1974	0.672	0.589	0.825	50.8	54.5	18.6	2.21	1.17	2.40	3.49	2.07	1.16	11.6	1974
1975	0.839	0.689	0.757	34.6	28.6	15.8	4.10	1.28	4.57	7.11	3.75	1.11	8.61	1975
1976	0.770	0.723	0.751	55.3	7.03	33.0	17.8	1.77	0.813	0.907	0.520	0.238	9.89	1976
1977	0.355	0.401	0.468	14.1	4.85	2.09	1.77	3.06	6.77	6.41	3.14	1.80	3.75	1977
1978	1.10	0.712	0.708	27.2	16.4	2.70	2.46	0.816	1.86	3.95	2.11	1.22	5.10	1978
1979	0.870	0.698	0.589	46.6	52.4	25.0	2.92	0.540	0.545	0.773	0.996	0.647	11.1	1979
1980	0.418	0.496	0.607	17.9	2.31	0.686	1.81	2.32	2.88	4.51	2.14	1.10	3.08	1980
1981	0.557	0.310	0.926	10.1	5.88	2.90	2.44	1.41	0.027	6.71	4.31	1.07	3.07	1981
1982	0.134	0.123	0.303	5.21	5.00	2.83	7.98	3.26	1.03	2.46	1.04	0.964	2.56	1982
1983	0.838	0.605	0.321	34.1	30.5	12.5	20.9	5.47	2.48	2.72	2.65	1.25	9.57	1983
1984	0.620	1.03	5.75	34.9	32.6	26.6	3.97	0.742	0.844	1.73	0.871	0.976	9.19	1984
1985	0.846	0.779	1.31	56.4	16.8	7.11	3.58	4.67	3.04	5.12	2.28	1.10	8.39	1985
1986	0.893	0.705	0.888	57.6	22.0	8.48	5.42	2.01	0.870	1.90	1.06	0.736	8.49	1986
1987	0.845	0.583	1.68	33.6	5.05	3.10	6.25	2.44	1.27	3.25	3.20	1.26	5.18	1987
1988	0.758	0.800	1.02	70.8	66.4	4.36	0.916	0.477	0.374	0.519	0.675	0.435	12.3	1988
MEAN	0.604	0.538	0.935	29.8	20.2	9.70	5.25	2.15	1.90	2.80	2.05	0.920	6.41	MEAN

LOCATION - LAT 52 11 47 N DRAINAGE AREA, 4 230 km²
LONG 101 03 37 W NATURAL FLOW

SWAN RIVER NEAR MINITONAS - STATION NO. 05LE006

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	---	---	---	1960
1961	---	3.00 ON APR 24	0 ON AUG 25 *	11 700	1961
1962	---	15.9 A ON MAY 3	0 B ON JAN 28	49 700	1962
1963	---	67.1 B ON APR 10	0 B ON FEB 13	87 200	1963
1964	---	22.7 B ON APR 14	0.3118 ON JAN 7	107 000	1964
1965	82.4 AT 13 30 CST ON JUN 10	81.6 ON JUN 10	0.5559 ON MAR 4	229 000	1965
1966	---	127 B ON APR 17	0.6998 ON MAR 8	303 000	1966
1967	---	97.4 B ON MAY 8	0.006 ON SEP 12	182 000	1967
1968	---	25.9 B ON MAR 30	0.1618 ON JAN 13	92 800	1968
1969	---	75.6 B ON APR 15	0.201 ON SEP 3	112 000	1969
1970	56.9 AT 05 00 CST ON MAY 4	53.8 ON MAY 4	0.3408 ON JAN 19	253 000	1970
1971	163 AT 00 00 CST ON APR 18	158 ON APR 18	0.127 ON SEP 19	266 000	1971
1972	170 AT 15 20 CST ON APR 22	166 ON APR 22	0.0038 ON DEC 26	323 000	1972
1973	24.2 AT 09 56 CST ON JUL 8	24.1 ON JUL 8	0 B ON JAN 25	117 000	1973
1974	---	217 ON APR 21	0.578 ON AUG 11	365 000	1974
1975	120 AT 18 40 CST ON APR 25	117 ON APR 25	0.883 ON AUG 19	272 000	1975
1976	---	159 B ON APR 10	0.1818 ON DEC 1	312 000	1976
1977	---	45.3 B ON APR 14	0.3098 ON JAN 1	119 000	1977
1978	98.6 AT 01 08 CST ON APR 19	85.8 ON APR 19	0.467 ON AUG 23	161 000	1978
1979	---	198 A ON APR 25	0.357 ON SEP 8	349 000	1979
1980	81.4 AT 15 30 CST ON APR 17	58.5 ON APR 17	0.3828 ON JAN 1	97 400	1980
1981	---	16.8 E ON OCT 18	0.010 ON OCT 9	96 800	1981
1982	23.9 AT 12 56 CST ON JUL 18	23.4 ON JUL 24	0.0858 ON JAN 28	80 600	1982
1983	231 AT 05 43 CST ON APR 25 *	218 ON APR 25 *	0.1240 ON MAR 20	302 000	1983
1984	52.9 AT 12 40 CST ON MAY 27	52.7 ON MAY 27	0.254 ON SEP 2	290 000	1984
1985	---	114 B ON APR 13	0.7178 ON FEB 15	264 000	1985
1986	113 AT 03 00 CST ON APR 11	110 ON APR 11	0.8338 ON MAR 24	267 000	1986
1987	---	93.4 B ON APR 6	0.4878 ON JAN 17	183 000	1987
1988	189 AT 01 22 CST ON MAY 4	185 B ON APR 6	0.286 ON SEP 19	389 000	1988
				202 000	MEAN

A - MANUAL GAUGE
(SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1970	---	---	---	---	---	---	---	---	---	3.42	6.84	3.06	---	1970
1971	1.27	0.845	0.714	4.85	18.0	8.15	10.8	7.32	5.32	---	---	---	---	1971
1972	2.14	1.42	0.902	2.88	22.8	11.0	5.48	2.47	3.93	5.92	3.11	1.12	5.29	1972
1973	1.08	1.22	0.790	0.571	9.88	4.95	4.85	7.49	5.88	8.00	4.38	2.84	4.13	1973
1974	1.19	0.828	0.881	5.04	19.4	9.88	5.81	3.78	4.28	4.52	3.16	2.32	5.08	1974
1975	1.42	0.762	0.488	2.08	16.4	16.4	10.7	6.82	5.65	10.9	5.30	2.28	6.80	1975
1976	1.07	0.957	0.738	2.21	3.88	10.1	13.1	6.88	3.33	3.28	2.48	1.39	4.12	1976
1977	0.734	0.632	0.803	11.2	10.3	12.8	11.0	4.04	5.32	5.03	5.42	1.91	5.74	1977
1978	0.384	0.233	0.295	1.40	12.4	8.02	7.15	6.52	7.01	17.4	9.58	4.45	6.28	1978
1979	1.51	0.844	0.380	0.485	13.5	22.5	8.29	1.73	1.85	3.13	4.05	2.26	4.86	1979
1980	0.729	0.531	0.510	4.36	2.88	1.88	2.40	5.82	18.6	15.2	4.70	2.20	4.98	1980
1981	1.36	0.987	0.798	0.721	13.5	3.86	0.776	0.177	0.047	3.87	2.07	1.08	2.44	1981
1982	0.873	0.505	0.431	1.90	23.7	11.2	2.47	3.23	2.45	4.11	3.08	1.80	4.76	1982
1983	1.58	1.30	1.02	1.83	23.0	17.8	6.58	2.85	11.1	8.56	2.83	1.34	6.66	1983
1984	0.806	0.691	0.556	9.86	19.0	10.7	5.22	2.58	6.17	7.74	4.21	2.00	5.82	1984
1985	1.33	1.02	0.845	7.98	21.7	15.8	11.7	2.81	1.15	1.91	1.26	0.380	5.70	1985
1986	0.383	0.311	0.184	0.871	20.8	11.3	20.9	12.8	4.28	2.51	0.993	0.560	6.40	1986
1987	0.455	0.382	0.440	5.43	9.44	6.56	5.87	2.75	3.85	4.80	2.41	0.842	3.62	1987
1988	0.623	0.588	0.582	0.897	---	9.03	4.43	1.84	1.90	2.33	2.24	1.59	---	1988
MEAN	1.04	0.770	0.624	3.81	15.2	10.8	7.52	4.53	5.16	5.12	3.76	1.85	5.17	MEAN

LOCATION - LAT 55 29 20 N DRAINAGE AREA, 883 km²
LONG 98 11 10 W NATURAL FLOW

TAYLOR RIVER NEAR THOMPSON - STATION NO. 05TG002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1970	---	---	---	---	1970
1971	23.7 AT 10:51 CST ON JUL 4	23.0 ON MAY 16	---	---	1971
1972	32.8 AT 00:12 CST ON MAY 1	32.3 ON MAY 1	0.848 ON APR 18	167 000	1972
1973	18.2 AT 22:47 CST ON MAY 7	13.1 ON MAY 10	0.5108 ON APR 28	130 000	1973
1974	26.3 AT 00:23 CST ON APR 30	22.7 ON MAY 13	0.7188 ON APR 15	160 000	1974
1975	28.8 AT 23:00 CST ON MAY 26	28.3 ON MAY 26	0.3888 ON MAR 26	215 000	1975
1976	19.9 AT 10:00 CST ON JUN 17	19.7 ON JUN 17	0.6238 ON MAR 23	130 000	1976
1977	---	21.5E ON APR 17	0.5788 ON MAR 27	181 000	1977
1978	---	20.5 ON OCT 5	0.2278 ON FEB 5	198 000	1978
1979	39.4 AT 20:30 CST ON JUN 2 *	33.7 ON JUN 2	0.2948 ON APR 9	153 000	1979
1980	28.2 AT 12:15 CST ON SEP 22	28.0 ON SEP 22	0.406 ON AUG 15	157 000	1980
1981	---	21.4B ON MAY 13	0.030 ON SEP 26 *	77 100	1981
1982	38.1 AT 18:25 CST ON MAY 5	35.8 ON MAY 5	0.3828 ON APR 18	150 000	1982
1983	37.8 AT 12:45 CST ON MAY 29	37.5 ON MAY 30 *	0.7708 ON APR 15	210 000	1983
1984	---	24.8 ON APR 28	0.5478 ON APR 1	184 000	1984
1985	---	28.8E ON APR 27	0.311 ON DEC 5	180 000	1985
1986	35.3 ON MAY 16	35.2 ON MAY 17	0.1558 ON MAR 27	202 000	1986
1987	14.8 AT 12:10 CST ON MAY 5	14.3A ON MAY 5	0.3728 ON FEB 24	114 000	1987
1988	---	---	0.5218 ON MAR 31	---	1988
				163 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TEAKO CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF087

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0	0	0.007	0.015	0.004	0	0	0	0	0	0	0	0.002	1986
1987	0	0	0.008	0.005	0	0	0	0	0	0	0	0	0.001	1987
1988	0	0	0	0.004	0.001	0	0.001	0	0	0	0.001	0	0.001	1988
MEAN	0	0	0.004	0.008	0.002	0	0	0	0	0	0	0	0.001	MEAN

LOCATION - LAT 50 14 40 N DRAINAGE AREA, .52 km²
LONG 95 52 54 W NATURAL FLOW
DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

TEAKO CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF087

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1986	0.101 ON MAR 31 *	0.072 ON MAR 31 *	0 ON JAN 1 *	59.3	1986
1987	---	0.042 ON MAR 22	0 ON JAN 1	26.7	1987
1988	---	0.027 ON APR 5	0 ON JAN 1	18.8	1988
				38.0	MEAN

* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1919	---	---	---	0.362	0.007	0.068	0.013	0	---	---	---	---	---	1919
1920	---	---	---	---	0.118	0.004	0	---	---	---	---	---	---	1920
1921	---	---	---	0.855	0.053	0.011	---	---	---	---	---	---	---	1921
1922	---	---	---	1.40	1.25	0.090	0.036	0.026	---	---	---	---	---	1922
1923	---	---	---	---	0.477	0.156	0.008	0	0	---	---	---	---	1923
1924	---	---	---	---	0.063	0	0	0	---	---	---	---	---	1924
1925	---	---	---	0.848	0.075	0.735	---	---	---	---	---	---	---	1925
1926	---	---	0.078	0.210	0.015	---	0.034	0	0.015	---	---	---	---	1926
1927	---	---	---	3.28	4.38	1.82	0.215	0	0.070	---	---	---	---	1927
1928	---	---	---	0.217	0.118	1.38	2.14	0.024	---	---	---	---	---	1928
MEAN	---	---	0.078	1.01	0.885	0.485	0.308	0.007	0.028	---	---	---	---	MEAN

LOCATION - LAT 49 24 10 N DRAINAGE AREA, 313 km²
LONG 97 55 50 W NATURAL FLOW

TOBACCO CREEK NEAR ROLAND - STATION NO. 05OF012

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1919	---	1.84 ON APR 8	0 ON APR 25 *	---	1919
1920	---	5.158 ON APR 15	0 ON MAY 23	---	1920
1921	---	11.0 ON JUL 5	0 ON MAY 17	---	1921
1922	---	11.2 ON MAY 13	0 ON JUL 8	---	1922
1923	---	20.2 B ON APR 18	0 ON JUL 15	---	1923
1924	---	2.83 ON APR 29	0E ON APR 18	---	1924
1925	---	---	0 ON MAY 21	---	1925
1926	---	2.75 ON JUN 24	0E ON MAR 1	---	1926
1927	---	24.1 ON MAY 11 *	0 ON AUG 1	---	1927
1928	---	12.5 ON JUL 6	0 ON AUG 9	---	1928
				---	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	0.202	1.61	0.280	0.104	0.042	0	0	0.040	---	---	0.279	1959
1960	---	---	0.047	4.73	0.233	0.029	0	0	0	0	---	---	0.618	1960
1961	---	---	0.833	0.848	0.067	0.002	0	0	0	0	---	---	0.198	1961
1962	---	---	0	1.57	1.31	0.313	0.021	0	0	0	---	---	0.400	1962
1963	---	---	0.387	0.088	0.002	0.447	0	0	0	0	---	---	0.113	1963
MEAN	---	---	0.290	1.73	0.378	0.179	0.013	0	0	0.008	---	---	0.321	MEAN

LOCATION - LAT 49 25 42 N DRAINAGE AREA, 247 km²
LONG 98 08 01 W NATURAL FLOW

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1959	---	8.73 ON APR 3	0B ON MAR 1 *	5 900	1959
1960	---	12.7 B ON APR 6 *	0B ON MAR 1	13 100	1960
1961	---	4.648 ON MAR 26	0B ON MAR 1	4 150	1961
1962	---	12.7 B ON APR 13	0 ON MAR 1	8 480	1962
1963	---	5.13 ON JUN 10	0B ON MAR 1	2 400	1963
				8 800	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1984	---	---	0	0.217	0.032	0.008	0	---	---	---	---	---	---	1984
1985	---	---	0	1.43	0	0.001	0	0	0	0	---	---	0.175	1985
1986	---	---	0.423	0.828	0.384	0	0.123	0	0	0	---	---	0.220	1986
1987	---	---	0.018	1.51	0.376	0.003	0.091	0	0	0	---	---	0.235	1987
1988	---	---	0.149	0.058	0.284	0.026	0.082	1.31	0.191	0.032	---	---	0.265	1988
1989	---	---	0	3.56	0.142	0.246	1.04	0.056	0	0	---	---	0.632	1989
1970	---	---	0	4.35	1.78	0.053	0	0	0	0	---	---	0.785	1970
1971	---	---	0	1.47	0.111	0.171	0.057	0	0.017	0.201	---	---	0.249	1971
1972	---	---	0.749	0.832	0.236	0.016	0	0.004	0	0	---	---	0.241	1972
1973	---	---	0.067	0.030	0.062	0.003	0.011	0.003	0	0.004	---	---	0.021	1973
1974	---	---	0	4.07	2.42	0.160	0.002	0	0	0	---	---	0.824	1974
1975	---	---	0	0.308	0.138	0.266	0.078	0	0	0	---	---	0.086	1975
1976	---	---	0.003	1.31	0.031	0	0	0	0	0	---	---	0.185	1976
1977	---	---	0	0.002	0.010	0	0	0	0.076	0.010	---	---	0.012	1977
1978	---	---	0	0.813	0.447	0.167	0.234	0	0.007	0	---	---	0.207	1978
1979	---	---	0	4.01	1.22	0.189	0.021	0.012	0	0	---	---	0.675	1979
1980	---	---	0	0.226	0.061	0	0	0	0	0	---	---	0.028	1980
1981	---	0.084	0.081	0.026	0.003	0.012	0.004	0.001	0	0	---	---	0.016	1981
1982	---	---	0.017	0.215	0.038	0.021	0	0	0	0.012	---	---	0.036	1982
1983	---	---	0.398	1.17	0.038	0.030	0.011	0	0	0	---	---	0.203	1983
1984	---	---	0.020	0.031	0.084	0.029	0	0	0	0	---	---	0.018	1984
1985	---	---	0.888	0.280	0.101	0.012	0.004	0.561	0.011	0.111	---	---	0.226	1985
1986	---	---	1.31	0.818	0.805	0.006	0.003	0	0	0	---	---	0.369	1986
1987	---	---	0.124	0.526	0.004	0	0	0	0	0	---	---	0.080	1987
1988	---	---	0.009	0.097	0.007	0	0	0	0	0	---	---	0.014	1988
MEAN	---	0.084	0.183	1.13	0.346	0.057	0.070	0.082	0.013	0.015	---	---	0.261	MEAN

LOCATION - LAT 49 27 00 N DRAINAGE AREA, 106 km²
LONG 98 08 45 W NATURAL FLOW

REMARKS - PRIOR TO 1980 LOCATED 4.8 km WEST 7.6 km NORTH OF ROSEBANK, DR. AREA 87.3 km²

TOBACCO CREEK NEAR ROSEBANK - STATION NO. 05OF018

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1984	---	0.6888 ON APR 10	0B ON MAR 1 *	---	1984
1985	---	12.7 ON APR 13	0 ON MAR 1	3 710	1985
1986	12.7 AT 07:00 CST ON MAY 5	6.34 ON MAY 5	0B ON MAR 1	4 680	1986
1987	---	11.8 ON APR 21	0B ON MAR 1	4 870	1987
1988	23.2 AT 19:30 CST ON AUG 24 *	10.1 ON AUG 25	0B ON MAR 1	5 820	1988
1989	22.7 ON APR 10	19.4 ON APR 10	0B ON MAR 1	13 400	1989
1970	18.5 AT 07:35 CST ON APR 30	17.1 ON APR 30	0B ON MAR 1	16 200	1970
1971	13.4 B AT 13:40 CST ON APR 5	9.71 B ON APR 9	0B ON MAR 1	5 280	1971
1972	---	4.16 B ON MAR 19	0B ON MAR 1	5 080	1972
1973	0.5168 AT 17:10 CST ON MAR 15	0.4368 ON MAR 14	0B ON MAR 1	452	1973
1974	22.1 AT 11:20 CST ON APR 21	19.3 ON APR 21	0B ON MAR 1	17 500	1974
1975	4.50 AT 01:13 CST ON JUN 28	3.96 ON JUN 29	0B ON MAR 1	2 040	1975
1976	7.82 B AT 14:41 CST ON APR 3	4.45 B ON APR 3	0B ON MAR 1	3 500	1976
1977	0.889 AT 11:55 CST ON SEP 26	0.773 ON SEP 26	0B ON MAR 1	254	1977
1978	5.18 AT 11:59 CST ON MAY 26	3.43 ON MAY 26	0B ON MAR 1	4 380	1978
1979	---	26.6 B ON APR 20 *	0B ON MAR 1	14 300	1979
1980	---	1.46 B ON APR 7	0B ON MAR 1	588	1980
1981	---	0.3398 ON MAR 16	0 ON APR 29	337	1981
1982	---	1.16 B ON APR 14	0B ON MAR 1	768	1982
1983	4.75 AT 15:22 CST ON APR 7	3.71 B ON APR 1	0B ON MAR 1	4 300	1983
1984	0.7148 AT 22:17 CST ON MAR 27	0.290 ON MAY 8	0B ON MAR 1	360	1984
1985	4.98 AT 03:45 CST ON AUG 18	4.06 ON AUG 18	0B ON MAR 1	4 800	1985
1986	8.45 B AT 18:45 CST ON MAR 24	7.85 B ON MAR 24	0B ON MAR 1	7 810	1986
1987	3.43 B AT 08:48 CST ON APR 6	3.20 B ON APR 6	0B ON MAR 1	1 700	1987
1988	0.931 AT 08:02 CST ON APR 5	0.4758 ON APR 3	0B ON MAR 1	294	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 100	MEAN

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1969	---	---	0	2.51	0.311	0.077	0.080	0.051	0.005	0.016	---	---	0.373	1969
1970	---	---	0	2.19	2.86	0.862	0.043	0	0.011	0.015	---	---	0.723	1970
1971	---	---	0	1.78	0.021	0.006	0.008	0.005	0.003	0.034	---	---	0.233	1971
1972	---	---	0.080	0.529	0.085	0.015	0	0.005	0.001	0.005	---	---	0.084	1972
1973	---	---	0.723	0.063	0.011	0.010	0.003	0	0.058	0.037	---	---	0.114	1973
1974	---	---	0	4.95	4.75	0.420	0.003	0	0	0	---	---	1.26	1974
1975	---	---	0	0.280	0.054	0.488	0.444	0	0	0	---	---	0.154	1975
1976	---	---	0.002	0.484	0.008	0.280	0.007	0	0	0	---	---	0.093	1976
1977	---	---	0.027	0.151	0.007	0.006	0	0.001	0.030	0.007	---	---	0.028	1977
1978	---	---	0.001	1.54	0.109	0.015	0.003	0	0.002	0	---	---	0.208	1978
1979	---	---	0	2.53	1.09	0.532	0.011	0.005	0.004	0	---	---	0.515	1979
1980	---	---	0	0.528	0.005	0	0	0	0	0	---	---	0.085	1980
1981	---	---	0.031	0.021	0.013	0.113	0.005	0.003	0	0.007	---	---	0.024	1981
1982	---	---	0.523	1.89	0.137	0.709	1.43	1.34	0.017	0.078	---	---	0.776	1982
1983	---	---	0.885	3.05	0.119	0.087	1.18	0.002	0	0	---	---	0.656	1983
1984	---	---	0.426	0.213	0.034	0.740	0.052	0.007	0	0.002	---	---	0.183	1984
1985	---	---	0.458	0.083	0.015	0.001	0.001	0.885	0.006	0.018	---	---	0.150	1985
1986	---	---	0.313	1.89	3.30	0.015	0.006	0	0.001	0.001	---	---	0.686	1986
1987	---	---	0	0.851	0.003	0	0.002	0	0	0	---	---	0.080	1987
1988	---	---	0.018	0.182	0.003	0	0	0	0	0	---	---	0.022	1988
MEAN	---	---	0.173	1.27	0.550	0.208	0.152	0.101	0.007	0.011	---	---	0.320	MEAN

LOCATION - LAT 49 31 50 N
LONG 96 58 50 W
DRAINAGE AREA, 189 km²
NATURAL FLOW

TOUROND CREEK NEAR TOUROND - STATION NO. 05OE009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1969	---	10.6 B ON APR 10	0 B ON MAR 1 *	7 900	1969
1970	---	8.13 ON MAY 16	0 B ON MAR 1	15 360	1970
1971	---	10.6 B ON APR 9	0 B ON MAR 1	4 930	1971
1972	---	1.40 ON APR 19	0 B ON MAR 1	1 780	1972
1973	---	2.37 B ON MAR 13	0 B ON MAR 1	2 420	1973
1974	---	28.9 ON MAY 21 *	0 B ON MAR 1	26 600	1974
1975	---	8.38 E ON JUN 30	0 B ON MAR 1	3 270	1975
1976	---	3.20 ON JUN 12	0 B ON MAR 1	1 880	1976
1977	---	0.943B ON APR 9	0 B ON MAR 1	587	1977
1978	---	5.77 B ON APR 9	0 B ON MAR 1	4 350	1978
1979	---	17.3 B ON APR 19	0 B ON MAR 1	10 900	1979
1980	5.60 AT 21:46 CST ON APR 6	4.76 B ON APR 6	0 B ON MAR 1	1 380	1980
1981	3.00 AT 22:41 CST ON JUN 27	1.79 ON JUN 26	0 ON MAY 16	507	1981
1982	9.46 AT 02:14 CST ON JUL 29	9.28 ON JUL 29	0.001B ON MAR 1	16 400	1982
1983	---	8.85 B ON APR 7	0 B ON MAR 1	13 900	1983
1984	4.34 AT 09:02 CST ON JUN 9	3.56 ON JUN 9	0 B ON MAR 1	3 880	1984
1985	6.72 AT 17:42 CST ON AUG 24	6.07 ON AUG 24	0 B ON MAR 1	3 170	1985
1986	15.1 AT 15:12 CST ON MAY 5 *	13.6 ON MAY 1	0 B ON MAR 1	14 100	1986
1987	---	3.27 B ON APR 8	0 B ON MAR 1	1 700	1987
1988	---	1.18 B ON APR 4	0 B ON MAR 1	469	1988
				6 780	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0	0.175	0.045	0.018	0	0	0	0	---	---	0.029	1978
1983	---	---	0.006	0.167	0	0.127	0.014	0	0	0	---	---	0.041	1983
1984	---	---	0.001	0	0	0.172	0.007	0	0	0	---	---	0.022	1984
1985	---	---	0.132	0.023	0	0	0	0.052	0.006	0	---	---	0.027	1985
1987	---	---	0	0.041	0	0	0	0.015	0	0	---	---	0.007	1987
1988	---	---	0	0.003	0	0	0	0	0	0	---	---	0	1988
MEAN	---	---	0.023	0.072	0.008	0.053	0.004	0.011	0.001	0	---	---	0.021	MEAN

LOCATION - LAT 49 54 34 N
LONG 97 15 50 W
DRAINAGE AREA, 11.4 km²
NATURAL FLOW

TRURO CREEK AT WESTERN AIRPORT BOUNDARY - STATION NO. 05MJ009

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	0.9178 AT 13:58 CST ON APR 10	0.917 ON APR 11 *	0B ON MAR 1 *	823	1978
1983	0.875 AT 20:57 CST ON JUN 22 *	0.824 ON JUN 23	0B ON MAR 1	868	1983
1984	0.843 AT 18:11 CST ON JUN 22	0.798 ON JUN 22	0B ON MAR 1	467	1984
1985	---	0.5028 ON MAR 23	0B ON MAR 1	574	1985
1987	---	0.333 ON AUG 15	0B ON MAR 1	148	1987
1988	---	0.025A ON APR 4	0B ON MAR 1	8.99	1988
				448	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	0.027	0.205	0.123	0.018	0.015	0.008	0.027	0.001	---	---	0.052	1978
1983	---	---	0.111	0.207	0.004	0.140	0.018	0.013	0.003	0.001	---	---	0.081	1983
1984	---	---	0.033	0.029	0.017	0.378	0.025	0.004	0.028	0.070	---	---	0.072	1984
1985	---	---	0.261	0.066	0.020	0.033	0.015	0.188	0.010	0.033	---	---	0.075	1985
1986	---	---	0.173	0.183	0.141	0.021	0.029	0.001	0.010	0.002	---	---	0.070	1986
1987	---	---	0.196	0.338	0.003	0.011	0.050	0.005	0.006	0.012	---	---	0.084	1987
1988	---	---	0.004	0.033	0.003	0.010	0.006	0	0.006	0.002	---	---	0.008	1988
MEAN	---	---	0.115	0.180	0.044	0.087	0.022	0.038	0.013	0.017	---	---	0.080	MEAN

LOCATION - LAT 49 53 16 N, LONG 97 13 40 W DRAINAGE AREA, 18.3 km^2, NATURAL FLOW

TRURO CREEK NEAR ASSINIBOINE GOLF COURSE - STATION NO. 05MJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1978	4.22 AT 23:21 CST ON MAY 25	1.23 ON MAY 26	0B ON MAR 1 *	1 110	1978
1983	2.38 AT 03:58 CST ON JUN 22	0.883 ON JUN 22	0B ON MAR 1	1 300	1983
1984	5.50 AT 21:13 CST ON JUN 21 *	1.69 ON JUN 22	0B ON MAR 1	1 520	1984
1985	4.08 AT 10:26 CST ON AUG 17	1.96 ON AUG 17 *	0B ON MAR 1	1 690	1985
1986	2.46 AT 11:17 CST ON JUL 11	1.21 ON MAR 31	0B ON MAR 1	1 440	1986
1987	---	1.42 B ON APR 5	0B ON MAR 1	1 770	1987
1988	---	0.313A ON APR 2	0B ON MAR 1	165	1988
				1 280	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TUMBLEWELL CREEK NEAR SOUTH INDIAN LAKE - STATION NO. 06EC004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAY TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1978	---	---	---	---	---	0.024	0.028	0.132	0.085	---	---	---	---	1978
MEAN	---	---	---	---	---	0.024	0.028	0.132	0.085	---	---	---	---	MEAN

LOCATION - LAT 56 46 30 N, LONG 98 07 05 W DRAINAGE AREA, 4.35 km^2, NATURAL FLOW DATA CONTRIBUTED BY - FRESHWATER INSTITUTE (DFO) (CANADA)

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1927	---	---	---	---	18.8	---	---	3.80	0.527	1.03	---	---	---	1927
1928	---	---	---	---	2.57	10.2	3.30	0.515	0.113	---	---	---	---	1928
1948	---	---	---	---	---	0.989	2.02	1.95	0.250	0.276	---	---	---	1948
1949	---	---	---	5.93	1.84	2.19	2.40	0.524	0.248	0.527	---	---	---	1949
1950	---	---	---	6.58	17.7	9.42	6.01	1.89	0.863	1.25	---	---	---	1950
1951	---	---	---	10.0	4.87	2.37	0.627	0.525	0.573	1.20	---	---	---	1951
1952	---	---	---	9.98	1.21	0.692	0.383	0.585	2.33	0.522	---	---	---	1952
1953	---	---	---	9.71	15.1	24.1	7.72	2.60	1.44	1.23	---	---	---	1953
1954	---	---	---	6.02	7.06	10.9	3.32	0.729	4.85	3.42	1.98	---	---	1954
1955	---	---	---	13.8	12.0	14.9	1.88	0.548	0.438	0.521	---	---	---	1955
1956	---	---	---	7.85	9.75	20.7	12.7	1.09	0.778	0.883	---	---	---	1956
1957	---	---	0.812	12.1	4.49	5.23	0.871	0.459	0.887	0.532	---	---	3.07	1957
1958	---	---	1.54	3.57	1.18	0.484	1.49	0.102	0.084	0.353	---	---	1.10	1958
1959	---	---	0.804	3.87	4.85	1.25	0.882	0.154	0.281	0.748	---	---	1.54	1959
1960	---	---	0.057	18.2	10.5	1.99	0.528	0.546	0.250	0.358	---	---	4.01	1960
1961	---	---	0.125	0.860	2.01	0.183	0.034	0	0.011	0.104	---	---	0.414	1961
1962	---	---	0	3.61	2.40	2.46	0.195	0.152	0.088	0.171	---	---	1.13	1962
1963	---	---	1.31	10.1	4.24	7.06	1.01	0.266	0.486	0.445	---	---	3.09	1963
1964	---	---	0.009	7.01	2.74	0.570	0.248	0.121	0.134	0.091	---	---	1.35	1964
1965	---	---	0	8.05	7.05	3.26	0.844	0.392	4.34	0.981	---	---	2.85	1965
1966	---	---	3.89	8.63	9.81	1.81	0.671	1.27	0.234	0.201	---	---	3.29	1966
1967	---	---	0.032	13.7	10.5	1.26	0.329	0.184	0.056	0.358	---	---	3.28	1967
1968	---	---	0.828	2.77	2.84	1.27	1.83	1.65	1.09	0.705	---	---	1.62	1968
1969	---	---	0.122	13.8	2.59	5.83	4.44	0.572	0.709	0.867	---	---	3.81	1969
1970	---	---	0.202	11.0	19.8	4.26	1.87	0.387	0.773	1.10	---	---	4.87	1970
1971	---	---	0.031	9.03	1.94	15.7	3.51	0.681	0.874	3.08	---	---	4.27	1971
1972	---	---	0.580	18.4	5.77	1.14	0.392	0.268	0.222	0.442	---	---	3.37	1972
1973	---	---	1.06	1.30	1.56	2.74	0.387	0.578	1.48	1.87	---	---	1.34	1973
1974	---	---	0.314	21.8	20.7	3.72	0.789	0.368	0.438	0.430	---	---	6.01	1974
1975	---	---	0.153	7.99	5.32	4.58	0.721	8.18	38.0	8.46	---	---	8.21	1975
1976	---	---	0.649	39.2	4.16	5.47	0.908	0.285	0.280	0.481	---	---	6.32	1976
1977	---	---	0.099	1.25	1.76	0.717	3.77	0.578	3.86	1.63	---	---	1.70	1977
1978	---	---	0.385	8.65	2.30	0.975	0.402	0.138	0.635	0.538	---	---	1.85	1978
1979	---	---	0.083	20.5	20.8	3.59	0.640	0.292	0.377	0.385	---	---	5.80	1979
1980	---	---	0.122	7.04	0.581	0.208	0.243	1.69	1.88	1.18	---	---	1.60	1980
1981	---	---	0.650	3.13	3.58	4.48	0.871	0.509	0.359	0.772	---	---	1.78	1981
1982	---	---	0.148	10.3	3.87	0.973	0.448	0.273	0.238	1.06	---	---	2.14	1982
1983	---	---	0.109	13.3	8.88	3.08	3.78	0.275	0.121	0.327	---	---	3.43	1983
1984	---	---	0.721	2.10	2.40	4.59	0.441	0.053	0.182	1.52	---	---	1.49	1984
1985	---	---	2.32	10.7	1.81	2.77	0.838	2.44	1.39	2.24	---	---	3.05	1985
1986	---	---	4.37	13.5	25.4	1.89	1.38	0.554	0.882	0.874	---	---	6.23	1986
1987	---	---	1.00	6.89	0.780	0.445	0.338	0.201	0.197	0.381	---	---	1.24	1987
1988	---	---	0.122	4.03	3.38	0.190	0.057	0.078	0.078	0.127	---	---	1.00	1988
MEAN	---	---	0.692	9.82	6.82	4.55	1.78	0.891	1.89	1.03	1.98	---	3.03	MEAN

LOCATION - LAT 50 56 40 N DRAINAGE AREA, 938 km²
LONG 99 31 15 W NATURAL FLOW

TURTLE RIVER NEAR LAURIER - STATION NO. 05LJ007

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1927	---	---	---	---	1927
1928	---	48.4 ON JUN 21	---	---	1928
1948	---	---	---	---	1948
1949	---	17.8 B ON APR 4	---	---	1949
1950	---	45.9 ON JUN 9	---	---	1950
1951	---	37.4 ON APR 29	---	---	1951
1952	---	34.8 B ON APR 8	0 ON AUG 21 *	---	1952
1953	---	86.8 E ON JUN 5	---	---	1953
1954	---	51.5 ON JUN 8	---	---	1954
1955	---	78.0 ON JUN 18	---	---	1955
1956	---	62.0 ON JUN 20	---	---	1956
1957	---	81.4 ON APR 25	0.1138 ON MAR 1	84 800	1957
1958	13.1 AT 23:30 CST ON JUL 5	12.3 B ON MAR 31	0 ON AUG 19	23 200	1958
1959	21.5 AT 05:00 CST ON MAY 4	17.7 ON MAY 4	0 B ON MAR 1	32 600	1959
1960	45.0B AT 03:30 CST ON APR 13	42.5 B ON APR 13	0.057B ON MAR 1	85 000	1960
1961	---	7.42A ON MAY 7	0 B ON MAR 1	8 750	1961
1962	27.0 AT 22:50 CST ON MAY 30	20.8 ON MAY 31	0 B ON MAR 1	23 800	1962
1963	37.4B AT 18:25 CST ON APR 8	34.5 B ON APR 8	0 B ON MAR 1	85 400	1963
1964	---	25.7 B ON APR 12	0 B ON MAR 1	28 800	1964
1965	35.4B AT 12:30 CST ON APR 13	30.0 B ON APR 13	0 B ON MAR 1	80 200	1965
1966	47.6 AT 08:15 CST ON MAY 5	41.5 ON MAY 5	0.085B ON MAR 1	89 800	1966
1967	---	71.5 B ON APR 15	0 ON SEP 9	89 400	1967
1968	15.5 AT 23:45 CST ON JUL 1	12.1 ON APR 21	0.042B ON MAR 1	34 400	1968
1969	84.1B AT 20:10 CST ON APR 12	78.0 B ON APR 12	0.122B ON MAR 1	76 400	1969
1970	55.8B AT 02:45 CST ON APR 30	52.1 B ON APR 30	0.125 ON SEP 10	103 000	1970
1971	88.3 AT 20:55 CST ON JUN 6	84.4 ON JUN 7	0.031B ON MAR 1	80 400	1971
1972	---	41.9 B ON APR 12	0.017 ON SEP 1	71 400	1972
1973	17.2 AT 22:50 CST ON JUN 20	13.4 ON JUN 21	0.082 ON JUL 12	28 400	1973
1974	114 B AT 22:45 CST ON APR 20	103 B ON APR 20	0.150 ON AUG 10	127 000	1974
1975	280 AT 17:28 CST ON SEP 19 *	227 ON SEP 20 *	0.153B ON MAR 1	185 000	1975
1976	97.1B AT 22:30 CST ON APR 7	84.4 ON APR 9	0.078 ON SEP 12	134 000	1976
1977	58.5 AT 05:20 CST ON JUL 12	51.0 ON JUL 12	0.051B ON MAR 1	36 100	1977
1978	---	18.4 B ON APR 18	0.031 ON AUG 13	39 200	1978
1979	96.6 AT 00:45 CST ON APR 24	81.3 ON APR 24	0.083B ON MAR 1	123 000	1979
1980	21.7 AT 05:42 CST ON APR 6	20.8 B ON APR 6	0.005 ON AUG 2	33 800	1980
1981	16.8 AT 01:05 CST ON JUN 16	14.0 ON JUN 16	0 B ON MAR 1	37 700	1981
1982	44.9B AT 11:52 CST ON APR 15	38.2 B ON APR 15	0 B ON MAR 1	45 400	1982
1983	---	44.7 B ON APR 21	0.075 ON SEP 29	72 800	1983
1984	49.5 AT 21:28 CST ON JUN 23	38.4 ON JUN 23	0.001 ON AUG 31	31 800	1984
1985	23.9 AT 04:22 CST ON APR 3	22.0 B ON APR 3	0 B ON MAR 1	84 800	1985
1986	241 AT 09:00 CST ON MAY 6	202 ON MAY 6	0.181 ON SEP 9	132 000	1986
1987	25.5B AT 03:25 CST ON APR 5	24.2 B ON APR 7	0.085 ON SEP 8	26 200	1987
1988	18.1 AT 01:34 CST ON MAY 3	15.8 ON MAY 3	0 ON AUG 10	21 200	1988
				84 200	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	5.62	---	---	---	---	---	---	---	---	1948
1949	---	---	---	6.73	1.87	2.87	1.86	0.388	0.269	0.257	---	---	---	1949
1950	---	---	---	---	16.8	11.8	6.17	3.16	1.65	1.25	---	---	---	1950
1951	---	---	---	11.6	5.81	2.40	1.14	0.883	0.706	1.12	---	---	---	1951
MEAN	---	---	---	9.37	8.78	5.56	3.10	1.48	0.848	0.675	---	---	---	MEAN

LOCATION - LAT 51 03 35 N
LONG 99 31 50 W
DRAINAGE AREA, 1 090 km^2
NATURAL FLOW

TURTLE RIVER NEAR STE. ROSE DU LAC - STATION NO. 05LJ013

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	64.3 ON APR 23	---	---	1948
1949	---	32.5B ON APR 5	---	---	1949
1950	---	88.6 ON JUN 10 *	---	---	1950
1951	---	48.4 ON APR 29	---	---	1951
				---	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.573	0.644	0.026	0.010	0	0	0	---	---	0.155	1964
1965	---	---	0	0.883	0.253	0.301	0.226	0.042	0.073	0.085	---	---	0.205	1965
1966	---	---	0.301	0.504	0.256	0.047	0.034	0	0	0.002	---	---	0.142	1966
1967	---	---	0.019	0.148	0.128	0.017	0	0	0	0	---	---	0.038	1967
1968	---	---	0.021	0.028	0.023	0.006	0.014	0.189	0.026	0.014	---	---	0.042	1968
1969	---	---	0	2.29	0.174	0.026	0.104	0.002	0	0.002	---	---	0.320	1969
1970	---	---	0	0.588	0.518	0.018	0	0	0	0	---	---	0.137	1970
1971	---	---	0.002	0.871	0.037	0.570	0.053	0.005	0.018	0.057	---	---	0.185	1971
1972	---	---	0.778	1.54	0.233	0.188	0.005	0.013	0	0	---	---	0.342	1972
1973	---	---	0.074	0.006	0.007	0.084	0.017	0.017	0	0.010	---	---	0.024	1973
1974	---	---	0	1.50	0.782	0.155	0.025	0	0	0	---	---	0.306	1974
1975	---	---	0	1.79	0.809	0.148	0.008	0	0.089	0.182	---	---	0.347	1975
1976	---	---	0.115	2.38	0.170	0.030	0.004	0	0	0	---	---	0.332	1976
1977	---	---	0.004	0.008	0.011	0	0	0	0	0	---	---	0.003	1977
1978	---	---	0.017	0.088	0.018	0.010	0.006	0	0	0	---	---	0.018	1978
1979	---	---	0	0.347	0.187	0.028	0	0	0	0	---	---	0.067	1979
1980	---	---	0.008	0.039	0.002	0	0	0.001	0.006	0.010	---	---	0.008	1980
1981	---	0.143	0.038	0.015	0.010	0.003	0	0	0	0	---	---	0.008	1981
1982	---	---	0.038	0.499	0.074	0.038	0	0	0	0	---	---	0.080	1982
1983	---	---	0.045	0.624	0.126	0.024	0.005	0	0	0	---	---	0.102	1983
1984	---	---	0.088	0.015	0.116	0.007	0	0	0	0	---	---	0.026	1984
1985	---	---	0.254	0.495	0.113	0.146	0.082	0.001	0.001	0.003	---	---	0.138	1985
1986	---	---	0.228	0.444	0.481	0.008	0.001	0	0	0	---	---	0.143	1986
1987	---	---	0.147	0.292	0.004	0	0	0.001	0	0	---	---	0.055	1987
1988	---	---	0.004	0.221	0.009	0	0	0	0	0	---	---	0.004	1988
MEAN	---	0.143	0.086	0.622	0.198	0.079	0.024	0.011	0.008	0.013	---	---	0.128	MEAN

LOCATION - LAT 49 07 59 N DRAINAGE AREA, 74.9 km²
LONG 100 23 57 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 0.544 AND 0 m³/s OCCURRED IN FEB

TURTLEHEAD CREEK ABOVE DELORAINE RESERVOIR - STATION NO. 05NG016

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1964	---	2.69 ON MAY 6	0B ON MAR 1 *	3 310	1964
1965	---	1.59 B ON APR 12	0B ON MAR 1	4 340	1965
1966	---	1.55 ON APR 8	0B ON MAR 1	3 020	1966
1967	---	0.371 ON APR 30	0B ON MAR 1	823	1967
1968	---	1.23 ON AUG 24	0B ON MAR 1	880	1968
1969	---	6.82 ON APR 9	0B ON MAR 1	8 770	1969
1970	---	3.20 ON APR 29	0B ON MAR 1	2 910	1970
1971	---	4.79 ON APR 7	0B ON MAR 1	3 940	1971
1972	---	2.74 ON APR 18	0B ON MAR 1	7 240	1972
1973	---	0.413 ON AUG 21	0B ON MAR 1	517	1973
1974	---	5.52 B ON APR 21	0B ON MAR 1	6 480	1974
1975	---	8.34 ON APR 28 *	0B ON MAR 1	7 340	1975
1976	---	4.64 ON APR 10	0 ON JUL 15	7 030	1976
1977	---	0.034 ON MAY 5	0B ON MAR 1	59.4	1977
1978	---	0.2948 ON MAR 31	0B ON MAR 1	312	1978
1979	---	3.96 B ON APR 19	0B ON MAR 1	1 420	1979
1980	---	0.1388 ON APR 6	0B ON MAR 1	178	1980
1981	---	0.0848 ON MAR 1	0 ON JUN 26	169	1981
1982	3.53 AT 17:51 CST ON APR 12	2.28 B ON APR 13	0B ON MAR 1	1 700	1982
1983	2.55 B AT 16:14 CST ON APR 8	1.07 B ON APR 8	0 ON JUN 27	2 150	1983
1984	1.00 AT 19:57 CST ON MAR 24	0.531 ON MAR 24	0B ON MAR 1	542	1984
1985	4.50 B AT 04:52 CST ON MAR 23	1.68 B ON MAR 23	0B ON MAR 1	2 870	1985
1986	1.68 AT 12:51 CST ON MAY 6	1.78 ON MAY 6	0B ON MAR 1	3 020	1986
1987	4.94 B AT 20:14 CST ON MAR 21 *	1.56 B ON MAR 21	0B ON MAR 1	1 170	1987
1988	0.3368 AT 15:27 CST ON APR 2	0.2178 ON APR 2	0B ON MAR 1	89.5	1988
				2 730	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1964	---	---	0	0.252	0.368	0.057	0.048	0	0.001	0	---	---	0.091	1964
1965	---	---	0	0.515	0.413	0.252	0.175	0.015	0.070	0.084	---	---	0.180	1965
1966	---	---	0.330	0.531	0.478	0.039	0.026	0	0	0	---	---	0.175	1966
1967	---	---	0.001	0.117	0.124	0.001	0	0	0	0	---	---	0.030	1967
1968	---	---	0.008	0.010	0.005	0.001	0	0.184	0.007	0.005	---	---	0.025	1968
1969	---	---	0	1.80	0.179	0.016	0.123	0.001	0	0.004	---	---	0.237	1969
1970	---	---	0	0.626	0.613	0.020	0.002	0	0	0	---	---	0.157	1970
1971	---	---	0.004	0.584	0.057	0.502	0.072	0	0.003	0.029	---	---	0.154	1971
1972	---	---	0.808	0.950	0.255	0.187	0.012	0.009	0	0.002	---	---	0.251	1972
1973	---	---	0.024	0.020	0.035	0.060	0.007	0.006	0.002	0.002	---	---	0.020	1973
1974	---	---	0.004	1.48	0.762	0.158	0	0	0	0	---	---	0.300	1974
1975	---	---	0	1.49	0.873	0.225	0.002	0.001	0.105	0.270	---	---	0.367	1975
1976	---	---	0.113	2.39	0.272	0.017	0	0	0	0	---	---	0.343	1976
MEAN	---	---	0.084	0.813	0.343	0.118	0.036	0.015	0.014	0.030	---	---	0.180	MEAN

LOCATION - LAT 49 09 43 N DRAINAGE AREA, 79.5 km²
LONG 100 25 03 W REGULATED

TURTLEHEAD CREEK BELOW DELORAINE RESERVOIR - STATION NO. 05NG017

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1964	---	0.991 ON MAY 7	0B ON MAR 1 *	1 920	1964
1965	---	1.03 ON APR 14	0B ON MAR 1	4 030	1965
1966	---	1.29 ON APR 2	0B ON MAR 1	3 710	1966
1967	---	0.365 ON APR 30	0B ON MAR 1	643	1967
1968	---	1.42 ON AUG 18	0B ON MAR 1	536	1968
1969	---	3.65 ON APR 8	0B ON MAR 1	5 010	1969
1970	---	3.45 ON APR 28	0B ON MAR 1	3 320	1970
1971	---	2.83 B ON APR 8	0B ON MAR 1	3 250	1971
1972	---	1.74 ON APR 17	0B ON MAR 1	5 310	1972
1973	---	0.224 ON JUN 21	0B ON MAR 1	413	1973
1974	---	5.18 ON APR 21	0B ON MAR 1	6 330	1974
1975	---	9.46 ON APR 28 *	0B ON MAR 1	7 780	1975
1976	---	4.98 ON APR 8	0E ON JUN 20	7 260	1976
				3 810	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1936	---	---	---	---	0.021	---	---	---	---	---	---	---	---	1936
1959	---	---	0.078	0.029	0.008	0.002	0	0.087	0.018	1.54	---	---	0.224	1959
1960	---	---	0.015	2.19	0.828	0.335	0	0	0	0	---	---	0.428	1960
1961	---	---	0.076	0.011	0.029	0	0	0	0	0	---	---	0.015	1961
1962	---	---	0.008	0.146	0.025	0.086	0.003	0	0	0	---	---	0.034	1962
1963	---	---	0.067	0.002	0.002	0.160	0	0	0	0	---	---	0.029	1963
MEAN	---	---	0.049	0.476	0.169	0.118	0.001	0.018	0.004	0.308	---	---	0.148	MEAN

LOCATION - LAT 49 11 15 N, LONG 100 25 03 W
DRAINAGE AREA, 93.8 km^2
NATURAL FLOW

TURTLEHEAD CREEK NEAR DELORAINE - STATION NO. 05NG011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1936	---	---	---	---	1936
1959	---	4.02 ON OCT 17	0B ON MAR 1 *	4 740	1959
1960	---	4.53 ON MAY 27 *	0B ON MAR 1	9 080	1960
1961	---	0.496 ON MAR 21	0 ON MAR 1	309	1961
1962	---	1.03 ON APR 6	0B ON MAR 1	725	1962
1963	---	1.09 ON JUN 13	0 ON MAR 27	603	1963
				3 090	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1957	---	---	0.316	3.59	4.85	1.00	0.684	1.11	0.198	0.105	---	---	1.45	1957
1958	---	---	0.380	5.647	0.215	0.131	0.070	0.019	0.026	0.050	---	---	0.192	1958
1959	---	---	B	5.082	0.408	1.60	2.79	0.813	0.432	0.521	---	---	0.829	1959
1960	---	---	0.533	1.41	3.18	5.02	1.13	0.322	0.182	0.088	---	---	1.47	1960
1961	---	---	0.109	0.154	0.183	0.035	0.306	0.229	0.087	0.117	---	---	0.151	1961
1962	---	---	0.007	0.278	0.205	0.124	0.019	0.006	0.008	0.014	---	---	0.082	1962
1963	---	---	0.036	0.361	0.119	0.124	0.163	0.012	0.006	0.009	---	---	0.103	1963
1964	---	---	0.042	0.148	0.178	0.022	0.009	0.548	0.009	0.011	---	---	0.121	1964
1965	---	---	0.028	0.165	0.236	0.082	0.055	0.291	0.288	0.779	---	---	0.241	1965
1966	---	---	0.604	0.902	1.88	2.33	2.97	0.582	0.257	0.243	---	---	1.22	1966
1967	---	---	0.400	0.721	0.679	0.192	0.080	0.037	0.137	0.173	---	---	0.302	1967
1968	---	---	0.416	0.441	0.168	0.153	0.174	0.085	0.034	0.018	---	---	0.186	1968
1969	---	---	0.245	0.380	0.118	0.185	0.423	0.289	0.085	0.260	---	---	0.246	1969
1970	---	---	0.388	0.707	5.25	4.02	2.96	1.80	0.682	0.508	---	---	2.17	1970
1971	---	---	0.357	1.22	1.24	1.29	1.05	0.431	0.155	0.740	---	---	0.809	1971
1972	---	---	0.758	1.06	2.92	1.62	0.673	0.220	0.108	0.238	---	---	0.949	1972
1973	---	---	0.190	1.01	0.184	0.475	1.00	0.638	0.609	1.39	---	---	0.885	1973
1974	---	---	0.443	1.43	9.19	6.52	1.77	0.591	0.272	0.466	---	---	2.58	1974
1975	---	---	0.248	1.16	7.02	5.62	2.68	0.936	1.34	2.08	---	---	2.66	1975
1976	---	---	0.447	2.57	2.85	10.9	---	---	---	---	---	---	---	1976
MEAN	---	---	0.296	0.920	2.10	2.08	0.999	0.471	0.257	0.409	---	---	0.886	MEAN

LOCATION - LAT 51 13 51 N, LONG 100 57 43 W
DRAINAGE AREA, 741 km^2
REGULATED

VALLEY RIVER AT TIMBERTON - STATION NO. 05LJ024

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1957	---	6.62 ON APR 30	0.028 ON OCT 25	30 800	1957
1958	---	1.19 B ON APR 6	0 ON AUG 4 *	4 050	1958
1959	---	4.79 ON JUN 30	0 B ON MAR 1	17 500	1959
1960	---	11.6 ON MAY 31	0.020 ON SEP 14	31 100	1960
1961	---	0.880 ON JUL 17	0 ON JUN 29	3 190	1961
1962	---	1.35 ON APR 23	0 B ON MAR 1	1 730	1962
1963	---	0.5728 ON APR 18	0.006 ON AUG 11	2 190	1963
1964	---	1.88 E ON AUG 8	0.008 ON SEP 22	2 570	1964
1965	---	1.00 ON OCT 17	0.014 ON JUL 11	5 110	1965
1966	---	6.03 ON JUL 1	0.178 ON AUG 23	25 800	1966
1967	---	1.08 B ON APR 25	0.006 ON AUG 29	6 390	1967
1968	---	1.31 B ON APR 6	0.011 ON AUG 5	3 920	1968
1969	---	0.8868 E ON JUN 29	0.027 ON SEP 13	5 210	1969
1970	9.71 AT 07:01 CST ON MAY 18	9.26 ON MAY 18	0.3688 ON MAR 1	45 800	1970
1971	3.34 AT 17:08 CST ON APR 24	2.61 ON APR 24	0.065 ON SEP 25	17 100	1971
1972	6.97 AT 01:34 CST ON MAY 21	5.38 ON MAY 21	0.037 ON SEP 18	20 100	1972
1973	3.948 AT 09:47 CST ON APR 23	3.26 B ON APR 23	0.076 ON JUN 2	14 600	1973
1974	12.4 AT 14:59 CST ON MAY 28	12.3 ON MAY 28	0.093 ON SEP 18	54 700	1974
1975	12.5 AT 09:10 CST ON MAY 11 *	11.1 ON MAY 11	0.2499 ON MAR 1	58 300	1975
1976	---	21.0 E ON JUN 24 *	---	---	1976
				18 300	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	---	---	---	---	---	---	5.65	---	---	1912
1913	---	---	---	45.3	18.6	7.22	41.1	8.07	3.02	1.65	1.16	0.283	---	1913
1914	0.113	0	0.057	5.24	31.2	8.06	1.92	0.337	0.442	0.578	0.336	0.227	4.08	1914
1915	0	0	0	2.27	1.50	2.15	2.56	0.253	0.588	1.06	0.545	0	0.814	1915
1916	0.028	0.028	0.340	13.0	12.3	22.6	13.3	3.06	1.76	1.73	1.41	0.142	5.79	1916
1917	0	0	0	10.5	23.6	8.84	14.1	2.20	1.97	0.981	0.728	0.105	5.37	1917
1918	0	0	5.67	5.45	7.88	3.09	2.33	2.51	0.883	0.616	0.762	0.192	2.48	1918
1919	0.100	0.057	0.080	8.14	9.54	2.41	6.94	1.20	1.06	1.95	0.488	0.110	2.69	1919
1920	---	---	---	---	29.4	8.25	2.27	0.803	1.24	1.29	---	---	---	1920
1921	---	---	---	---	15.3	39.6	8.12	2.34	6.02	6.36	11.9	---	---	1921
1922	---	---	1.24	38.8	86.4	11.7	2.64	0.851	1.28	---	---	---	---	1922
1923	---	---	---	---	---	---	---	---	---	1.88	1.42	---	---	1923
1924	---	---	---	---	10.5	7.45	3.56	2.09	1.40	3.34	3.08	---	---	1924
1925	---	---	---	50.7	11.4	16.8	10.4	1.32	0.481	1.12	---	---	---	1925
1926	---	---	---	---	4.42	2.67	1.30	0.306	2.31	4.83	---	---	---	1926
1927	---	---	---	---	34.7	22.9	27.1	7.35	5.67	4.06	---	---	---	1927
1928	---	---	---	10.8	13.6	28.7	23.0	5.48	2.05	---	---	---	---	1928
MEAN	0.040	0.014	1.05	19.1	19.4	12.9	10.7	2.53	2.01	2.26	2.50	0.151	3.65	MEAN

LOCATION - LAT 51 15 10 N
LONG 100 08 40 W
DRAINAGE AREA, 2 720 km^2
NATURAL FLOW

VALLEY RIVER AT VALLEY RIVER - STATION NO. 05LJ004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	101 ON JUL 13	---	---	1913
1914	---	69.3 ON MAY 9	0 B ON FEB 1 *	129 000	1914
1915	---	5.97 ON JUL 20	0 B ON JAN 1	28 800	1915
1916	---	64.3 ON JUN 27	0.0288 ON JAN 1	183 000	1916
1917	---	41.3 ON MAY 10	0 B ON JAN 1	169 000	1917
1918	---	20.0 B ON MAR 29	0 B ON JAN 1	78 300	1918
1919	---	20.0 ON APR 10	0.0289 ON DEC 19	84 900	1919
1920	---	105 B ON APR 23	---	---	1920
1921	---	118 ON JUN 17	---	---	1921
1922	---	144 ON MAY 5 *	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	93.7 ON APR 7	---	---	1925
1926	---	---	---	---	1926
1927	---	100 ON APR 19	---	---	1927
1928	---	73.6 ON JUN 22	---	---	1928
				112 000	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	40.7	4.35	15.7	6.10	1.01	E.801	---	---	---	1948
1949	---	---	---	7.26	2.05	5.14	2.15	1.40	0.041	E.047	---	---	---	1949
1950	---	---	---	---	8.47	5.29	3.08	1.80	0.114	1.04	---	---	---	1950
1951	---	---	---	17.6	19.3	2.59	3.26	2.08	2.71	2.73	---	---	---	1951
1952	---	---	---	20.1	3.36	1.82	0.487	0.033	0.388	0.259	---	---	---	1952
1953	---	---	---	13.1	9.48	35.4	17.7	5.44	2.83	4.11	4.54	---	---	1953
1954	---	---	---	20.5	22.2	44.6	24.8	2.85	5.27	11.2	4.81	---	---	1954
1955	---	---	---	31.0	23.6	13.1	4.58	1.67	0.378	0.581	---	---	---	1955
1956	---	---	---	13.4	40.8	13.6	13.4	3.58	2.28	1.30	---	---	---	1956
1957	---	---	1.07	28.9	13.6	3.06	1.17	1.14	0.383	0.348	---	---	6.15	1957
1958	---	---	1.38	6.55	1.04	0.575	0.408	0.038	0.015	0.034	---	---	1.24	1958
1959	---	---	1.17	5.52	2.08	8.57	5.18	0.805	0.807	0.920	---	---	2.84	1959
1960	---	---	0.263	28.7	8.92	9.21	1.32	0.285	0.038	0	---	---	6.01	1960
1961	---	---	0.259	1.10	0.844	0.080	0	0	0	0	---	---	0.286	1961
1962	---	---	0	4.59	1.13	0.511	0.022	0.001	0.001	0	---	---	0.771	1962
1963	---	---	1.28	4.19	1.35	1.76	1.20	0.048	0.001	0	---	---	1.22	1963
1964	---	---	0	3.88	2.18	0.081	0.007	0	0	0	---	---	0.775	1964
1965	---	---	0	7.77	3.15	1.31	1.76	1.84	1.67	1.33	---	---	2.34	1965
1966	---	---	0.746	23.7	9.74	4.84	5.10	0.882	0.290	0.126	---	---	5.61	1966
1967	---	---	0.297	25.1	12.8	0.954	0.184	0.022	0	0.002	---	---	4.88	1967
1968	---	---	2.88	5.28	0.583	0.128	0.019	0.015	0.008	0.003	---	---	1.12	1968
1969	---	---	0.105	14.1	1.14	0.226	2.02	0.804	0.081	0.585	---	---	2.38	1969
1970	---	---	0.487	25.5	22.1	7.70	5.51	2.91	0.445	0.688	---	---	8.16	1970
1971	---	---	0.751	24.3	3.73	8.42	2.42	0.730	0.088	1.15	---	---	5.13	1971
1972	---	---	2.58	21.2	8.85	2.61	0.854	0.425	0.557	0.608	---	---	4.87	1972
1973	---	---	0.885	1.42	0.838	1.84	1.22	0.549	1.40	2.22	---	---	1.26	1973
1974	---	---	0.504	48.6	36.4	13.0	2.14	0.881	0.426	0.573	---	---	12.7	1974
1975	---	---	0.433	24.8	18.8	11.8	3.75	1.32	5.78	4.73	---	---	8.82	1975
1976	---	---	1.32	30.0	7.04	31.3	9.36	1.85	1.14	0.201	---	---	10.1	1976
1977	---	---	0.394	2.44	1.32	0.702	0.829	0.474	1.20	3.45	---	---	1.32	1977
1978	---	---	0.644	12.3	3.23	1.19	0.881	0.381	0.270	0.278	---	---	2.33	1978
1979	---	---	0.280	44.8	22.2	12.3	1.85	0.350	0.233	0.287	---	---	10.2	1979
1980	---	---	0.283	13.0	1.22	0.213	0.054	0.122	0.070	0.108	---	---	1.85	1980
1981	---	---	1.57	2.21	1.26	1.28	3.16	0.268	0.045	0.074	---	---	1.23	1981
1982	---	---	0.046	4.48	1.48	0.484	0.285	0.884	0.117	0.814	---	---	1.00	1982
1983	---	---	0.382	34.2	9.88	18.4	9.84	1.22	0.267	0.325	---	---	8.82	1983
1984	---	---	2.11	3.81	3.24	7.29	5.75	0.881	0.187	0.430	---	---	2.91	1984
1985	---	---	0.989	21.7	4.11	3.17	0.875	1.13	1.73	3.56	---	---	4.46	1985
1986	---	---	7.14	27.1	21.4	4.30	2.85	1.56	0.459	E.828	---	---	8.18	1986
1987	---	---	1.08	27.5	2.84	0.638	0.882	0.218	0.011	E.422	---	---	4.14	1987
1988	---	---	0.371	14.3	28.0	3.27	0.501	0.041	0.013	E.127	---	---	5.83	1988
MEAN	---	---	0.988	17.0	10.5	5.88	3.80	1.12	0.888	1.09	4.58	---	4.33	MEAN

LOCATION - LAT 51 18 45 N
LONG 100 00 38 W

DRAINAGE AREA, 2 880 km²
REGULATED

VALLEY RIVER NEAR DAUPHIN - STATION NO. 05LJ010

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	225 ON APR 26	---	---	1948
1949	---	24.8 B ON APR 7	0 ON SEP 28 *	---	1949
1950	---	64.3 B ON APR 20	---	---	1950
1951	---	66.8 B ON APR 7	---	---	1951
1952	---	47.3 B ON APR 6	0 ON AUG 22	---	1952
1953	---	95.7 ON JUN 4	---	---	1953
1954	---	89.2 ON JUL 1	---	---	1954
1955	---	89.4 B ON APR 7	---	---	1955
1956	---	75.3 ON MAY 6	---	---	1956
1957	---	84.1 ON APR 25	0 ON SEP 29	130 000	1957
1958	---	24.0 B ON APR 4	0 ON AUG 15	25 300	1958
1959	---	23.8 ON JUN 19	0 B ON MAR 1	60 100	1959
1960	---	80.7 ON APR 15	0 ON SEP 20	127 000	1960
1961	---	1.06 ON APR 25	0 B ON MAR 1	6 050	1961
1962	---	34.3 B ON APR 21	0 B ON MAR 1	15 300	1962
1963	---	8.68 ON APR 8	0 B ON MAR 1	25 900	1963
1964	---	16.7 B ON APR 17	0 B ON MAR 1	15 400	1964
1965	---	36.5 ON APR 15	0 B ON MAR 1	49 500	1965
1966	---	66.6 B ON APR 3	0 ON SEP 23	119 000	1966
1967	---	143 ON APR 28	0 ON AUG 16	103 000	1967
1968	---	16.2 B ON MAR 29	0.003 ON SEP 24	23 700	1968
1969	---	85.6 B ON APR 15	0 B ON MAR 1	80 000	1969
1970	116 AT 01:35 CST ON APR 27	110 ON APR 26	0.184 ON SEP 20	173 000	1970
1971	146 B AT 05:06 CST ON APR 12	130 B ON APR 12	0.031 ON SEP 23	109 000	1971
1972	---	60.0 B ON APR 18	0.258 ON AUG 13	94 800	1972
1973	5.10 AT 00:38 CST ON OCT 5	4.76 ON OCT 5	0.1188 ON MAR 15	26 800	1973
1974	288 AT 14:03 CST ON APR 20	262 ON APR 20	0.221 ON SEP 28	269 000	1974
1975	82.1 AT 16:00 CST ON APR 30	77.9 ON APR 30	0.4338 ON MAR 1	167 000	1975
1976	---	91.2 ON APR 7	0.105 ON OCT 18	214 000	1976
1977	---	4.83 ON APR 15	0.127 ON JUL 7	28 100	1977
1978	---	26.1 B ON APR 13	0.113 ON AUG 12	49 200	1978
1979	484 AT 08:41 CST ON APR 23 *	385 ON APR 23 *	0.048 ON OCT 10	215 000	1979
1980	---	39.3 B ON APR 10	0 ON JUL 30	39 200	1980
1981	46.1 AT 08:44 CST ON JUL 4	39.1 ON JUL 4	0.005 ON SEP 20	26 100	1981
1982	---	13.4 B ON APR 17	0 B ON MAR 1	21 200	1982
1983	333 AT 15:05 CST ON APR 25	281 ON APR 25	0.018 ON OCT 5	167 000	1983
1984	39.4 AT 21:33 CST ON JUN 28	28.2 ON JUN 28	0 ON AUG 28	61 800	1984
1985	56.1 B AT 17:57 CST ON APR 10	47.3 ON APR 13	0.035 ON AUG 3	94 800	1985
1986	116 B AT 12:36 CST ON APR 1	101 B ON APR 1	0.367 ON SEP 20	173 000	1986
1987	195 AT 15:44 CST ON APR 7	173 ON APR 7	0 ON SEP 9	87 600	1987
1988	91.8 AT 19:30 CST ON APR 6	88.2 B ON APR 6	0 ON AUG 7	123 000	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		91 600	MEAN

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	6.14	21.7	9.08	10.4	2.85	1.96	0.882	---	---	---	1956
1958	---	---	0.836	2.62	0.785	0.417	0.170	0.014	0.067	0.028	---	---	0.586	1958
1959	---	---	0.243	1.80	0.781	3.05	4.15	0.801	0.508	0.765	---	---	1.52	1959
1960	---	---	8.204	14.4	5.31	6.14	1.41	0.609	0.342	0.474	---	---	3.57	1960
1961	---	---	0.362	0.597	0.470	0.073	0.178	0.089	0.027	0.024	---	---	0.224	1961
1963	---	---	---	---	---	---	---	---	0	B	---	---	---	1963
1964	---	---	0.057	1.70	1.08	0.080	0	0.503	0.003	B	---	---	0.423	1964
1965	---	---	0.071	4.25	1.70	0.915	0.551	0.480	0.730	0.918	---	---	1.19	1965
1966	---	---	0.488	8.13	4.99	3.35	3.24	0.648	0.171	0.234	---	---	2.76	1966
1967	---	---	0.427	8.98	4.45	0.445	0.132	0.074	0.001	0.318	---	---	1.84	1967
1968	---	---	1.31	2.76	0.458	0.082	0.084	0.017	0.016	0	---	---	0.564	1968
1969	---	---	0.268	7.43	0.588	0.178	1.06	0.740	0.132	0.555	---	---	1.35	1969
1970	---	---	0.385	13.0	11.3	4.27	3.47	1.95	0.482	0.848	---	---	4.43	1970
1971	---	---	0.588	10.2	2.18	4.14	1.96	0.858	0.157	0.898	---	---	2.58	1971
1972	---	---	0.780	11.8	5.14	2.30	0.589	0.508	0.543	0.573	---	---	2.77	1972
1973	---	---	0.582	1.13	0.458	0.772	0.949	0.873	0.728	1.11	---	---	0.813	1973
1974	---	---	0.508	15.1	20.1	10.2	1.84	0.803	0.236	0.338	---	---	6.10	1974
1975	---	---	0.088	13.0	12.3	8.15	3.08	0.953	3.29	3.13	---	---	5.45	1975
1976	---	---	0.581	14.1	5.15	15.5	8.26	1.59	1.22	0.219	---	---	5.64	1976
1977	---	---	0.511	1.07	0.883	0.406	0.427	0.361	0.768	2.11	---	---	0.818	1977
1978	---	---	0.728	6.84	1.92	0.925	0.523	0.508	0.250	0.258	---	---	1.48	1978
1979	---	---	0.170	14.3	11.5	10.4	2.04	0.261	0.668	0.401	---	---	4.95	1979
1980	---	---	0.382	5.57	0.935	0.138	0.088	0.161	0.017	0.181	---	---	0.921	1980
1981	---	---	0.630	0.791	0.626	0.673	2.84	0.341	0.043	0.105	---	---	0.722	1981
1982	---	---	0.180	1.89	0.882	0.278	0.125	0.388	0.134	0.718	---	---	0.582	1982
1983	---	---	0.391	10.2	4.61	8.34	5.27	1.13	0.127	0.288	---	---	3.52	1983
1984	---	---	1.07	1.58	1.43	3.42	4.37	0.842	0.387	0.185	---	---	1.62	1984
1985	---	---	0.394	11.2	3.00	2.07	0.808	0.379	1.34	1.73	---	---	2.59	1985
1986	---	---	3.62	10.8	7.73	3.20	2.56	1.89	0.685	1.25	---	---	4.95	1986
1987	---	---	0.954	9.47	1.98	0.980	0.626	0.331	0.305	0.589	---	---	1.68	1987
1988	---	---	2.34	4.70	16.6	2.68	0.249	0.446	0.288	0.424	---	---	3.51	1988
MEAN	---	---	0.872	7.22	5.04	3.34	1.86	0.879	0.504	0.826	---	---	2.35	MEAN

LOCATION - LAT 51 11 10 N DRAINAGE AREA, 1 730 km^2
LONG 100 41 40 W REGULATED

VALLEY RIVER NEAR GRANDVIEW - STATION NO. 05LJ021

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1958	---	48.2 ON MAY 5	---	---	1958
1958	---	5.268 ON APR 4	0 ON AUG 2 *	12 400	1958
1959	---	11.1 ON JUN 17	0.028 ON SEP 23	32 200	1959
1960	---	39.6 ON APR 12	0 ON SEP 11	75 500	1960
1961	---	1.51 ON JUL 18	0 ON JUL 4	4 740	1961
1962	---	---	0 ON AUG 21	---	1962
1964	---	3.178 ON APR 16	0 ON JUN 14	8 970	1964
1965	---	14.7 ON APR 14	0 ON JUL 10	25 200	1965
1966	---	23.6 ON APR 6	0.102 ON SEP 5	56 500	1966
1967	---	37.7 ON APR 27	0 ON SEP 3	36 600	1967
1968	---	5.498 ON MAR 27	0 ON AUG 16	12 400	1968
1969	---	46.7 B ON APR 13	0.005 ON SEP 20	28 700	1969
1970	---	48.4 B ON APR 25	0.261 ON SEP 20	93 800	1970
1971	---	57.8 ON APR 10	0.037 ON SEP 21	84 500	1971
1972	---	37.9 ON APR 17	0.181E ON OCT 30	58 600	1972
1973	---	5.86 ON AUG 28	0.218 ON AUG 19	17 200	1973
1974	---	88.1 ON APR 20 *	0.026 ON SEP 19	129 000	1974
1975	---	50.4 ON APR 21	0.0688 ON MAR 1	115 000	1975
1976	---	38.2 B ON APR 6	0.183 ON OCT 6	117 000	1976
1977	---	2.87 ON OCT 13	0.071 ON JUL 10	17 300	1977
1978	---	20.2 B ON APR 16	0.065 ON SEP 27	31 300	1978
1979	89.1 B AT 05:21 CST ON APR 22 *	85.7 B ON APR 22	0 ON AUG 31	105 000	1979
1980	---	15.0 B ON APR 8	0 ON JUN 24	18 500	1980
1981	56.9 AT 12:48 CST ON JUL 2	35.0 ON JUL 2	0 ON SEP 13	15 300	1981
1982	---	7.828 ON APR 16	0 ON JUL 10	12 300	1982
1983	---	78.4 A ON APR 24	0.074 ON SEP 23	74 700	1983
1984	8.83 AT 20:11 CST ON JUL 2	8.85 ON JUL 3	0.048 ON OCT 10	34 200	1984
1985	51.9 B AT 15:00 CST ON APR 11	38.3 B ON APR 11	0.037 ON AUG 8	84 800	1985
1986	---	48.7 B ON APR 2	0.431 ON SEP 1	83 800	1986
1987	73.3 B AT 20:52 CST ON APR 6	54.0 B ON APR 8	0.084 ON SEP 20	39 800	1987
1988	38.3 AT 23:05 CST ON MAY 8	38.3 ON MAY 8	0 ON JUL 18	74 300	1988
				49 800	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1955	---	---	---	8.01	11.7	8.72	2.87	1.20	0.157	0.145	---	---	---	1955
MEAN	---	---	---	8.01	11.7	8.72	2.87	1.20	0.157	0.145	---	---	---	MEAN

LOCATION - LAT 51 11 05 N
LONG 100 51 05 W
DRAINAGE AREA, 1 220 km^2
NATURAL FLOW

VALLEY RIVER WEST OF GRANDVIEW - STATION NO. 05LJ018

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1955	---	17.68 ON APR 8 *	---	---	1955
				---	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	---	---	13.8	8.849	3.88	0.880	0.142	0.151	---	---	---	1948
1949	---	---	---	5.09	1.01	3.10	3.38	0.528	0.063	0.115	---	---	---	1949
1950	---	---	---	5.43	11.9	5.83	4.30	0.585	0.308	0.850	---	---	---	1950
1951	---	---	---	10.0	4.41	1.19	0.485	0.330	0.480	1.65	---	---	---	1951
1952	---	---	0.332	11.3	1.18	0.373	0.175	0.103	1.31	0.395	---	---	1.88	1952
1953	---	---	---	10.8	9.88	19.8	3.01	0.768	1.02	1.59	0.823	---	---	1953
1954	---	---	---	5.00	5.80	8.42	4.28	0.780	2.86	3.11	1.08	---	---	1954
1955	---	---	---	12.7	9.70	5.55	0.851	0.188	0.110	0.225	---	---	---	1955
1956	---	---	0.028	5.82	10.2	15.2	7.80	1.14	0.743	0.567	---	---	5.28	1956
1957	---	---	0.328	18.5	5.32	2.23	0.372	0.241	0.218	0.233	---	---	3.39	1957
1958	---	---	0.784	2.26	0.430	0.152	0.384	0.054	0.036	0.048	---	---	0.516	1958
1959	---	---	0.476	1.84	2.97	1.70	0.676	0.048	0.087	0.457	---	---	1.00	1959
1960	---	---	0.113	14.2	9.88	1.85	0.082	0.086	0.034	0.038	---	---	3.24	1960
1961	---	---	0.032	0.505	0.787	0.088	0.021	0.020	0.063	0.122	---	---	0.202	1961
1962	---	---	0.028	3.81	0.836	0.473	0.088	0.082	0.121	0.070	0.104	---	0.827	1962
1963	---	---	1.31	6.86	2.75	4.09	1.01	0.101	0.157	0.085	---	---	2.03	1963
1964	---	---	0.028	6.68	3.38	0.204	0.154	0.025	0.038	0.132	---	---	1.32	1964
1965	---	---	0.100	7.32	4.88	2.51	0.788	0.184	5.70	1.26	---	---	2.82	1965
1966	---	---	2.10	10.0	8.35	0.856	0.811	0.636	0.122	0.206	---	---	2.89	1966
1967	---	---	0.108	8.90	11.6	0.848	0.101	0.261	0.081	0.100	---	---	2.74	1967
1968	---	---	1.20	1.91	1.04	0.354	1.45	1.08	0.441	0.238	---	---	0.984	1968
1969	---	---	0.139	7.29	0.884	5.82	4.01	0.176	0.166	0.574	---	---	2.34	1969
1970	---	---	0.197	10.4	18.1	3.20	1.08	0.196	0.523	0.798	---	---	4.31	1970
1971	---	---	0.188	10.6	1.73	5.31	1.63	0.585	0.183	1.23	---	---	2.85	1971
1972	---	---	1.27	10.2	4.82	0.577	0.111	0.086	0.081	0.216	---	---	2.16	1972
1973	---	---	0.454	0.741	0.378	0.420	0.069	0.044	1.75	2.76	---	---	0.827	1973
1974	---	---	0.232	26.4	24.2	2.22	0.231	0.190	0.306	0.371	---	---	5.73	1974
1975	---	---	0.088	10.2	5.01	2.85	0.451	2.00	15.8	4.21	---	---	5.14	1975
1976	---	---	0.418	21.4	2.39	10.7	0.909	0.171	0.082	0.240	---	---	4.46	1976
1977	---	---	0.102	0.810	0.444	0.102	1.21	0.341	1.83	0.855	---	---	0.739	1977
1978	---	---	0.287	10.4	2.72	1.10	0.532	0.063	0.313	0.867	---	---	2.01	1978
1979	---	---	0.080	18.8	18.6	3.02	0.461	0.056	0.078	0.106	---	---	5.13	1979
1980	---	---	0.118	3.88	0.258	0.081	0.171	0.370	0.808	0.463	---	---	0.748	1980
1981	---	---	0.688	1.57	1.88	3.24	0.314	0.035	0.014	0.380	---	---	1.02	1981
1982	---	---	0.142	7.38	1.70	0.338	0.186	0.303	0.083	1.21	---	---	1.40	1982
1983	---	---	0.095	14.5	5.48	1.88	1.28	0.411	0.084	0.077	---	---	3.09	1983
1984	---	---	0.281	0.535	3.48	0.947	0.092	0.011	0.058	0.412	---	---	0.729	1984
1985	---	---	1.43	13.5	2.27	1.47	0.234	1.58	1.22	1.85	---	---	2.91	1985
1986	---	---	4.30	9.75	17.3	0.553	0.374	0.437	0.250	0.302	---	---	4.17	1986
1987	---	---	1.83	8.43	0.594	0.268	0.220	0.185	0.020	0.022	---	---	1.43	1987
1988	---	---	0.177	3.55	10.1	0.854	0.083	0.013	0.002	0.004	---	---	1.82	1988
MEAN	---	---	0.574	8.60	5.85	2.85	1.14	0.374	0.915	0.898	0.869	---	2.43	MEAN

LOCATION - LAT 51 11 00 N DRAINAGE AREA, 874 km²
LONG 100 00 45 W REGULATED SINCE 1970

VERMILION RIVER NEAR DAUPHIN - STATION NO. 05LJ012

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	66.3 ON APR 25	---	---	1948
1949	---	17.9 ON APR 12	---	---	1949
1950	---	41.1 ON MAY 14	---	---	1950
1951	---	46.7 ON APR 28	---	---	1951
1952	---	38.4 B ON APR 7	0 B ON MAR 1 *	38 400	1952
1953	---	75.0 ON JUN 3	---	---	1953
1954	---	34.5 ON JUN 8	---	---	1954
1955	---	37.9 ON MAY 5	---	---	1955
1956	---	148 ON JUN 19	0.028B ON MAR 1	112 000	1956
1957	---	103 ON APR 25	0.085B ON MAR 1	71 800	1957
1958	---	7.59B ON MAR 29	0 B ON MAR 1	10 900	1958
1959	---	9.43 ON MAY 4	0 B ON MAR 1	21 200	1959
1960	---	44.5 ON MAY 27	0.034 ON AUG 28	58 800	1960
1961	---	2.41 ON MAY 9	0.008 ON AUG 7	4 280	1961
1962	---	26.2 ON APR 18	0.028B ON MAR 1	13 300	1962
1963	---	27.8 B ON APR 8	0 B ON MAR 1	43 000	1963
1964	---	22.6 ON APR 27	0 ON JUL 27	27 900	1964
1965	---	42.5 ON APR 12	0.003E ON MAR 1	59 800	1965
1966	---	40.8 B ON MAR 31	0.085B ON MAR 1	81 200	1966
1967	---	36.8 B ON APR 16	0 ON AUG 30	57 900	1967
1968	---	8.16 ON JUL 3	0 ON JUN 24	20 400	1968
1969	---	40.8 ON JUN 26	0.001 ON SEP 16	49 800	1969
1970	---	52.0 B ON APR 26	0.026 ON SEP 7	81 300	1970
1971	---	33.7 B ON APR 11	0.040 ON SEP 4	56 000	1971
1972	---	30.3 ON APR 22	0 ON SEP 14	45 700	1972
1973	---	13.5 ON OCT 4	0 ON AUG 1	17 500	1973
1974	---	170 ON APR 20 *	0 ON JUL 21	142 000	1974
1975	188 AT 01:04 CST ON SEP 20	153 ON SEP 20	0.048 ON JUL 18	108 000	1975
1976	---	87.2 ON JUN 14	0.037 ON SEP 16	84 500	1976
1977	---	8.71 ON JUL 12	0.008 ON JUL 8	15 700	1977
1978	---	26.6 B ON APR 10	0.025 ON SEP 6	42 800	1978
1979	208 AT 10:12 CST ON APR 22 *	164 ON APR 22	0 ON AUG 7	109 000	1979
1980	31.0 B AT 07:20 CST ON APR 5	27.6 B ON APR 5	0.004E ON SEP 3	15 800	1980
1981	11.2 AT 11:57 CST ON MAY 30	10.7 ON MAY 30	0 ON AUG 23	21 600	1981
1982	23.9 AT 11:30 CST ON APR 18	20.3 ON APR 18	0 B ON MAR 1	29 800	1982
1983	96.0 AT 12:32 CST ON APR 24	64.2 ON APR 24	0 ON SEP 18	65 300	1983
1984	8.08 AT 21:51 CST ON MAY 13	6.87 ON MAY 13	0 B ON MAR 1	15 400	1984
1985	50.8 B AT 08:25 CST ON APR 3	40.2 B ON APR 3	0.077 ON AUG 11	61 700	1985
1986	134 AT 20:32 CST ON MAY 6	103 ON MAY 7	0.147B ON MAR 11	58 300	1986
1987	50.1 B AT 18:46 CST ON APR 4	38.7 B ON APR 4	0 ON SEP 1	30 200	1987
1988	56.2 AT 01:42 CST ON MAY 4	45.6 ON MAY 3	0 ON SEP 8	38 500	1988
				51 500	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1974	---	---	0	1.69	0.246	0.048	0.170	0	0	B	---	---	0.285	1974
1975	---	---	0	1.78	0.281	0.050	0	0	0.001	0.068	---	---	0.288	1975
1976	---	---	1.45	1.88	0.020	0	0	0	0	0	---	---	0.413	1976
1977	---	---	0	0	0	0	0	0	0	0	---	---	0	1977
1978	---	---	0	0.070	0	0	0	0	0	0	---	---	0.008	1978
1979	---	---	0	0.801	0.004	0	0	0	0	0	---	---	0.099	1979
1980	---	---	0	0.001	0	0	0	0	0.452	0.015	---	---	0.057	1980
1981	---	0.238	0.058	0	0	0	0	0	0	0	---	---	0.007	1981
1982	---	---	0.011	0.582	0	0.014	0	0	0	0.013	---	---	0.078	1982
1983	---	---	0.264	0.334	0.002	0	0	0	0	0	---	---	0.075	1983
1984	---	---	0.018	0.001	0.020	0	0	0	0	0.004	---	---	0.008	1984
1985	---	---	1.77	0.132	0	0.102	0.010	0	0	0	---	---	0.254	1985
1986	---	---	0.206	0.089	0.027	0	0.018	0.001	0	0	---	---	0.042	1986
1987	---	---	0.457	0.033	0	0	0	0	0	0	---	---	0.082	1987
1988	---	---	0.003	0.007	0	0	0	0	0	0	---	---	0.001	1988
MEAN	---	0.238	0.282	0.482	0.040	0.014	0.013	0	0.030	0.007	---	---	0.109	MEAN

LOCATION - LAT 49 07 40 N
LONG 100 42 50 W
DRAINAGE AREA, 104 km^2
NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGE OF 1.12 AND 0 m^3/s OCCURRED IN FEBRUARY

WASKADA CREEK NEAR CRANMER - STATION NO. 05NF014

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1974	---	7.87 ON APR 11	0B ON MAR 1 *	5 810	1974
1975	---	8.76 ON APR 29	0B ON MAR 1	5 550	1975
1976	---	18.3 ON MAR 31 *	0B ON MAR 1	8 730	1976
1977	---	0 B ON MAR 1	0B ON MAR 1	0	1977
1978	---	0.5659 ON APR 4	0B ON MAR 1	182	1978
1979	---	9.68 B ON APR 19	0B ON MAR 1	2 050	1979
1980	3.97 AT 20:21 CST ON SEP 13	3.33 ON SEP 14	0B ON MAR 1	1 210	1980
1981	---	0.5008 ON MAR 1	0 ON MAR 22	151	1981
1982	9.87 AT 00:28 CST ON APR 13	5.62 ON APR 13	0B ON MAR 1	1 610	1982
1983	2.84 B AT 11:10 CST ON APR 1	1.62 B ON MAR 31	0B ON MAR 1	1 580	1983
1984	1.46 AT 12:03 CST ON MAY 5	0.586 ON MAY 5	0B ON MAR 1	116	1984
1985	10.5 AT 15:54 CST ON MAR 20 *	8.92 ON MAR 19	0B ON MAR 1	5 370	1985
1986	1.17 B AT 05:36 CST ON APR 19	0.870 ON APR 19	0B ON MAR 1	898	1986
1987	7.20 B AT 12:31 CST ON MAR 21	4.84 B ON MAR 21	0B ON MAR 1	1 310	1987
1988	0.1488 AT 10:07 CST ON APR 3	0.1008 ON APR 3	0B ON MAR 1	25.9	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 310	MEAN

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	0.141	0.188	0.051	0	0.121	0.121	0	---	---	0.075	1965
1966	---	---	0.251	0.018	0.123	0.037	0.283	0	0	0	---	---	0.081	1966
1967	---	---	0.150	0.078	0.034	0	0	0	0	0	---	---	0.031	1967
1968	---	---	0.013	0	0	0	0	0.522	0.018	0	---	---	0.005	1968
1969	---	---	0	1.35	0.014	0	0.013	0	0	0	---	---	0.169	1969
1970	---	---	0.253	0.533	0.068	0	0	0	0	0	---	---	0.108	1970
1971	---	---	0	0.055	0	0.380	0.194	0	0	0	---	---	0.075	1971
1972	---	---	0.337	0.142	0.001	0.438	0	0.082	0	0	---	---	0.114	1972
1973	---	---	0.011	0	0	0.003	0	0	0	0	---	---	0.002	1973
MEAN	---	---	0.113	0.257	0.044	0.099	0.058	0.015	0.015	0	---	---	0.074	MEAN

LOCATION - LAT 49 07 06 N, LONG 100 41 20 W. DRAINAGE AREA, 89.1 km^2. NATURAL FLOW

WASKADA CREEK NORTH OF CRANMER - STATION NO. 05NF011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	2.09 ON AUG 27	0 ON MAR 1 *	1 590	1965
1966	---	1.14 ON JUL 8	0B ON MAR 1	1 930	1966
1967	---	0.7628 ON MAR 28	0B ON MAR 1	683	1967
1968	---	0.288 ON AUG 27	0B ON MAR 1	131	1968
1969	---	7.42 ON APR 10 *	0B ON MAR 1	3 570	1969
1970	---	3.11 ON MAR 28	0B ON MAR 1	2 240	1970
1971	---	2.73 ON JUN 15	0B ON MAR 1	1 580	1971
1972	---	3.86 ON JUN 15	0B ON MAR 1	2 410	1972
1973	---	0.159 ON MAR 12	0 ON MAR 1	37.0	1973
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		1 570	MEAN

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LM002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1923	---	---	---	---	---	---	---	---	158	154	158	---	---	1923
1924	---	---	---	75.9	109	185	134	103	89.5	93.3	94.3	---	113	1924
1925	---	---	---	53.3	128	204	182	151	148	127	---	---	142	1925
1926	---	---	---	70.8	101	142	97.4	78.0	86.4	84.9	---	---	88.5	1926
1927	---	---	---	---	104	185	177	148	152	152	---	---	---	1927
1928	---	---	---	---	128	194	157	124	104	---	---	---	---	1928
MEAN	---	---	---	66.7	114	181	149	120	120	118	126	---	118	MEAN

LOCATION - LAT 51 48 50 N, LONG 99 32 00 W. DRAINAGE AREA, 86 100 km^2. NATURAL FLOW

WATERHEN RIVER AT BERNARDIN'S FARM - STATION NO. 05LM002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1923	---	---	---	---	1923
1924	---	213 ON JUN 5	83.1 ON APR 25	2 080 000	1924
1925	---	354 ON JUN 21 *	43.38 ON APR 1	2 630 000	1925
1926	---	215 ON JUN 7	41.9 ON OCT 7 *	1 840 000	1926
1927	---	221 ON JUN 9	---	---	1927
1928	---	249 ON JUN 8	---	---	1928
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		2 120 000	MEAN

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LM004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1928	---	---	---	---	---	---	---	---	---	94.3	---	---	---	1928
1929	---	---	---	---	80.8	115	81.7	81.2	40.5	37.4	---	---	---	1929
1930	---	---	---	---	89.8	80.9	83.5	47.3	40.5	---	---	---	---	1930
MEAN	---	---	---	---	75.3	98.0	77.8	54.3	40.5	85.8	---	---	---	MEAN

LOCATION - LAT 51 50 00 N
LONG 99 33 00 W
DRAINAGE AREA, 55 100 km^2
NATURAL FLOW

WATERHEN RIVER AT MCCREERY'S FARM - STATION NO. 05LM004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1928	---	---	---	---	1928
1929	---	---	---	---	1929
1930	---	102 ON JUN 15 *	---	---	1930
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LM005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1950	---	---	---	---	---	---	---	---	---	---	58.7	28.5	---	1950
1951	19.6	14.0	8.29	---	---	113	99.5	83.3	60.5	73.3	51.4	42.6	---	1951
1952	24.8	12.3	11.8	---	---	148	120	102	81.8	102	90.1	58.6	---	1952
1953	42.1	27.5	22.0	31.8	116	150	200	169	204	198	202	179	131	1953
1954	144	123	117	159	248	277	---	---	286	281	273	249	---	1954
1955	188	139	127	233	286	317	277	234	193	176	149	106	202	1955
1956	86.5	87.3	72.5	111	186	180	167	161	163	163	148	88.5	134	1956
1957	60.7	38.7	28.7	68.1	159	146	132	116	103	93.1	90.6	67.6	91.4	1957
1958	30.8	17.3	15.8	78.8	102	99.1	78.2	63.1	54.3	52.7	44.2	11.1	54.2	1958
1959	3.88	0.413	0.055	16.0	87.5	86.5	68.0	71.4	69.8	73.6	44.3	32.1	47.2	1959
1960	24.8	16.0	8.17	44.7	115	138	124	104	79.8	71.4	75.8	27.0	69.2	1960
1961	12.4	3.04	3.79	35.1	84.5	82.5	61.5	39.5	26.4	21.8	19.1	3.40	33.1	1961
1962	0.037	0	0	2.35	52.6	44.0	36.4	19.9	16.9	21.8	14.6	4.21	18.0	1962
1963	0.185	0.008	0.185	11.5	34.0	32.1	27.4	15.8	11.2	11.2	7.62	0.545	12.7	1963
1964	0.071	0.122	0.142	4.04	26.8	26.1	13.7	12.8	13.3	18.2	16.9	3.37	11.1	1964
1965	0.077	0.025	0	4.85	51.5	69.0	76.6	62.4	60.3	66.7	55.4	38.0	40.7	1965
1966	28.6	21.4	9.14	29.5	108	136	141	138	126	125	88.8	58.5	83.1	1966
1967	56.2	52.9	52.1	82.8	163	188	172	151	115	108	92.0	56.6	107	1967
1968	37.3	26.2	18.4	88.0	126	118	111	108	103	103	87.2	53.1	80.0	1968
1969	33.4	25.1	19.8	70.0	123	122	100	88.9	72.1	73.6	55.3	37.5	68.7	1969
1970	26.0	17.3	10.2	18.6	88.3	125	134	130	117	118	116	79.8	83.1	1970
1971	86.5	53.8	47.0	107	180	178	150	128	110	117	92.4	84.4	109	1971
1972	47.5	42.6	34.8	72.7	173	169	154	133	115	102	72.9	30.3	95.8	1972
1973	15.3	8.53	7.50	84.6	105	127	124	105	99.4	95.6	88.0	40.8	71.2	1973
1974	27.5	22.0	17.9	39.4	172	207	181	160	149	139	126	95.5	112	1974
1975	76.8	58.8	51.7	91.4	174	183	157	135	129	129	128	76.7	116	1975
1976	82.8	54.0	45.8	110	159	168	156	141	123	113	82.5	40.6	105	1976
1977	26.4	18.4	14.3	88.1	122	113	86.8	81.8	81.5	92.8	77.8	47.8	71.8	1977
1978	35.3	23.9	17.8	56.5	126	123	101	83.0	70.7	73.7	58.4	30.8	67.0	1978
1979	17.6	8.86	7.45	17.3	110	180	171	148	125	120	88.1	64.7	88.8	1979
1980	52.4	41.5	30.0	86.6	133	105	79.7	67.8	62.4	60.6	53.0	23.5	67.1	1980
1981	19.6	2.83	0.06	36.1	71.8	72.4	56.8	39.7	23.2	16.7	28.5	21.7	33.7	1981
1982	2.71	0.425	0.826	8.35	61.8	74.4	69.2	52.2	41.2	49.8	33.1	15.4	34.2	1982
1983	12.8	7.46	5.12	8.77	102	131	133	120	107	100	86.8	46.7	72.1	1983
1984	23.7	17.8	14.2	95.7	167	171	151	124	108	109	74.9	52.7	93.0	1984
1985	34.0	33.4	38.3	106	152	149	125	118	111	107	70.6	33.9	89.8	1985
1986	25.8	19.0	18.5	84.0	163	158	138	125	108	102	67.9	45.6	88.1	1986
1987	45.2	36.1	37.5	106	124	117	103	97.2	80.0	68.5	73.1	58.3	81.7	1987
1988	30.9	13.9	11.0	81.0	170	168	142	118	104	92.0	69.0	41.1	87.1	1988
MEAN	37.5	28.4	24.5	84.2	128	137	120	105	98.8	98.6	80.1	52.7	78	MEAN

LOCATION - LAT 51 51 10 N
LONG 99 32 50 W
DRAINAGE AREA, 55 100 km^2
NATURAL FLOW

WATERHEN RIVER NEAR WATERHEN - STATION NO. 05LH005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1950	---	---	---	---	1950
1951	---	---	---	---	1951
1952	---	---	---	---	1952
1953	---	269 ON SEP 3	19.3 B ON MAR 26	4 120 000	1953
1954	---	---	112 B ON APR 1	---	1954
1955	---	337 ON JUN 9 *	89.2 B ON DEC 25	5 350 000	1955
1956	---	224 ON MAY 30	59.5 B ON MAR 31	4 240 000	1956
1957	---	200 ON MAY 21	25.8 B ON MAR 22	2 880 000	1957
1958	---	178 ON MAY 26	5.78 B ON DEC 30	1 710 000	1958
1959	152 AT 14:30 CST ON JUN 28	132 ON JUN 28	0 B ON FEB 17 *	1 490 000	1959
1960	173 AT 15:00 CST ON JUN 1	153 ON JUN 14	7.08 B ON MAR 28	2 190 000	1960
1961	---	102 ON MAY 24	0.0468 ON DEC 25	1 040 000	1961
1962	---	97.7E ON MAY 18	0 B ON JAN 30	569 000	1962
1963	80.7 ON MAY 20	84.0 ON MAY 18	0 B ON FEB 17	401 000	1963
1964	69.7 AT 13:30 CST ON MAY 19	44.5 ON MAY 11	0.0588 ON JAN 7	352 000	1964
1965	128 AT 08:00 CST ON MAY 26	122 ON MAY 26	0 B ON MAR 4	1 280 000	1965
1966	177 AT 18:45 CST ON JUN 2	158 ON JUN 2	3.77 B ON MAR 31	2 620 000	1966
1967	246 AT 11:05 CST ON JUN 21	220 ON JUN 21	41.6 B ON DEC 31	3 380 000	1967
1968	209 AT 17:15 CST ON MAY 15	187 ON MAY 15	15.8 B ON MAR 22	2 530 000	1968
1969	174 AT 03:54 CST ON MAY 19	146 ON MAY 31	17.6 B ON APR 4	2 160 000	1969
1970	202 AT 14:36 CST ON MAY 25	185 ON MAY 25	8.92 B ON APR 1	2 620 000	1970
1971	235 AT 13:47 CST ON MAY 29	219 ON MAY 10	44.7 B ON MAR 25	3 430 000	1971
1972	236 AT 18:19 CST ON JUN 14	203 ON JUN 14	22.8 B ON DEC 27	3 030 000	1972
1973	173 AT 20:54 CST ON JUN 19	162 ON JUN 19	2.87 B ON MAR 2	2 250 000	1973
1974	261 AT 20:21 CST ON JUN 14 *	227 ON JUN 14	8.15 B ON APR 15	3 530 000	1974
1975	217 AT 22:51 CST ON JUN 4	206 ON JUN 5	50.7 B ON MAR 15	3 650 000	1975
1976	212 AT 19:38 CST ON JUN 13	199 ON JUN 14	34.8 B ON DEC 28	3 320 000	1976
1977	170 AT 18:16 CST ON JUN 30	136 ON MAY 16	13.0 B ON MAR 6	2 280 000	1977
1978	153 AT 17:00 CST ON MAY 31	150 ON MAY 31	15.7 B ON MAR 26	2 110 000	1978
1979	229 AT 23:30 CST ON JUN 21	206 ON JUN 21	5.29 B ON APR 11	2 790 000	1979
1980	155 E ON MAY 5	155 E ON MAY 5	12.8 B ON DEC 31	2 120 000	1980
1981	135 AT 04:15 CST ON JUN 18	103 ON JUN 18	0.1738 ON FEB 16	1 060 000	1981
1982	125 AT 04:53 CST ON JUN 7	109 ON JUN 7	0.3808 ON FEB 20	1 080 000	1982
1983	175 AT 18:08 CST ON MAY 28	160 ON JUN 15	2.73 B ON APR 6	2 270 000	1983
1984	210 AT 08:58 CST ON MAY 11	195 ON JUN 23	16.9 B ON MAR 11	2 940 000	1984
1985	---	207 E ON JUN 27	29.0 B ON DEC 31	2 830 000	1985
1986	205 AT 18:26 CST ON MAY 31	204 A ON JUN 3	13.9 B ON MAR 13	2 780 000	1986
1987	170 AT 14:49 CST ON OCT 1	137 ON MAY 20	33.6 B ON FEB 25	2 580 000	1987
1988	227 AT 18:26 CST ON MAY 12	197 ON JUN 1	10.1 B ON FEB 27	2 760 000	1988
				2 480 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX)
B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1977	1.72	1.34	1.11	---	---	6.35	5.94	4.50	10.1	6.23	5.47	1.97	---	1977
1978	0.978	0.890	0.500	0.508	48.1	17.8	35.1	48.1	47.8	33.3	10.3	3.64	20.8	1978
1979	1.88	0.978	0.678	0.857	24.0	57.8	61.7	18.7	14.5	22.1	6.62	2.61	17.8	1979
1980	1.24	0.880	0.768	20.2	42.2	43.5	50.4	54.1	44.9	26.5	3.54	2.67	24.3	1980
1981	2.14	1.80	1.18	0.815	51.1	24.0	16.3	16.9	8.86	20.8	4.70	2.09	13.5	1981
1982	1.84	1.23	0.830	1.33	82.5	59.8	18.1	18.3	19.1	18.4	7.83	4.38	18.8	1982
1983	3.18	2.27	1.88	1.13	25.1	147	18.7	21.0	54.3	30.1	13.1	5.44	26.8	1983
1984	3.86	2.45	1.51	36.3	81.4	42.5	11.7	5.81	4.88	5.44	2.72	1.58	16.8	1984
1985	1.10	0.888	0.724	15.6	---	---	---	5.47	4.71	5.57R	2.80R	0.974R	---	1985
1986	0.881	0.715	0.887	0.659	83.2	48.2	33.2	50.9	28.0	13.2	6.14	2.77	22.5	1986
1987	1.78	1.37	1.16	27.8	32.5	13.7	6.98	1.80	15.4	11.8	5.48	1.83	10.1	1987
1988	1.24	0.892	0.883	0.827	68.5	59.8	31.2	17.9	11.7	9.54	7.80	4.10	18.8	1988
MEAN	1.78	1.29	0.972	9.66	55.8	46.5	26.2	21.8	21.8	17.1 R	6.33R	2.85 R	18.2R	MEAN

LOCATION - LAT 57 01 33 N
LONG 93 26 54 W
DRAINAGE AREA, 2 280 km^2
NATURAL FLOW
R - REVISED SINCE JAN 01 1987

WEIR RIVER ABOVE THE MOUTH - STATION NO. 05UH002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1977	---	---	---	---	1977
1978	---	114 ON AUG 18	0.4538 ON MAR 23	855 000	1978
1979	128 AT 23:17 CST ON JUL 17	124 ON JUL 19	0.6128 ON MAR 28	581 000	1979
1980	---	134 ON JUL 28	0.7388 ON MAR 22	769 000	1980
1981	---	114 B ON MAY 21	0.8508 ON APR 12	424 000	1981
1982	---	213 B ON MAY 6	0.2838 ON APR 25 *	818 000	1982
1983	---	349 E ON MAY 31 *	0.5858 ON MAY 20	845 000	1983
1984	219 AT 18:00 CST ON MAY 19 *	217 ON MAY 19	1.10 B ON APR 8	528 000	1984
1985	---	---	0.6008 ON DEC 13	---	1985
1986	---	188 E ON MAY 17	0.6588 ON APR 25	710 000	1986
1987	---	98.7B ON APR 24	1.03 B ON APR 10	318 000	1987
1988	---	144 E ON MAY 22	0.8208 ON APR 6	521 000	1988
				805 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1982	---	---	0	1.72	0.561	---	---	---	---	---	---	---	---	1982
1983	---	---	0.285	0.600	0.551	0.834	0.241	0.180	0.059	0	---	---	0.339	1983
1984	---	---	0.008	0.812	0.379	0.331	0.147	0.080	0.513	0.089	---	---	0.293	1984
1985	---	---	0.068	1.23	0.810	0.485	0.250	0.860	0.323	0.198	---	---	0.400	1985
1986	---	---	0.827	0.871	0.653	0.102	0.080	0.072	0.012	0.023	---	---	0.328	1986
1987	---	---	0.037	0.934	0.318	0.123	0.051	0.035	0.028	0.039	---	---	0.193	1987
1988	---	---	0.193	0.409	0.337	0.238	0.067	0.211	0.425	0.139	---	---	0.254	1988
1989	---	---	0.003	1.08	0.481	0.318	0.442	0.113	0.083	0.178	---	---	0.336	1989
1970	---	---	0.018	1.87	1.09	0.324	0.245	0.047	0.087	0.078	---	---	0.443	1970
1971	---	---	0.023	1.62	0.517	0.443	0.328	0.087	0.208	0.425	---	---	0.464	1971
1972	---	---	0.320	0.810	0.482	0.388	0.084	0.123	0.108	0.071	---	---	0.293	1972
1973	---	---	0.171	0.181	0.302	0.386	0.310	0.152	0.146	0.142	---	---	0.221	1973
1974	---	---	0.061	2.08	1.08	0.157	0.005	0.035	0.130	0.127	---	---	0.464	1974
1975	---	---	0.084	1.05	0.525	0.159	0.032	0.231	0.336	0.187	---	---	0.322	1975
1976	---	---	0.156	1.92	0.180	0.118	0.026	0.033	0.005	0.089	---	---	0.308	1976
1977	---	---	0.015	0.237	0.149	0.080	0.078	0.048	0.108	0.088	---	---	0.103	1977
1978	---	---	0.088	0.733	0.273	0.077	0.112	0.017	0.101	0.074	---	---	0.183	1978
1979	---	---	0.087	1.31	1.13	0.323	0.082	0.024	0.024	0.054	---	---	0.375	1979
1980	---	---	0.042	0.612	0.081	0.010	0.018	0.235	0.045	0.218	---	---	0.157	1980
1981	---	0.236	0.200	0.157	0.146	0.304	0.046	0.092	0.122	0.188	---	---	0.184	1981
1982	---	---	0.031	0.513	0.244	0.203	0.591	0.036	0.026	0.202	---	---	0.230	1982
1983	---	---	0.001	1.48	0.294	0.173	0.082	0.018	0.049	0.072	---	---	0.287	1983
1984	---	---	0.163	0.300	0.278	0.224	0.015	0.016	0	0.243	---	---	0.184	1984
1985	---	---	0.378	0.584	0.228	0.180	0.067	0.235	0.129	0.195	---	---	0.253	1985
1986	---	---	0.713	1.03	0.793	0.129	0.445	0.117	0.110	0.101	---	---	0.430	1986
1987	---	---	0.313	0.915	0.108	0.050	0.102	0.220	0.063	0.094	---	---	0.232	1987
1988	---	---	0.128	0.320	0.312	0.046	0.088	0.037	0.058	0.089	---	---	0.132	1988
MEAN	---	0.236	0.182	0.833	0.449	0.238	0.155	0.098	5.128	0.130	---	---	5.281	MEAN

LOCATION - LAT 49 56 00 N DRAINAGE AREA, 136 km²
LONG 86 56 50 W NATURAL FLOW

REMARKS - THE 1981 MAXIMUM AND MINIMUM DAILY DISCHARGES OF .633 AND 0 m³/s OCCURRED IN FEB

WEST SQUIRREL CREEK NEAR AUSTIN - STATION NO. 05LL001

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1982	---	0.60 ON APR 17	---	---	1982
1983	---	2.94 ON JUN 11	0 B ON MAR 1 *	7 190	1983
1984	---	0.55 ON SEP 2	0 ON AUG 17	6 190	1984
1985	---	7.28 ON APR 13	0 ON AUG 16	8 450	1985
1986	---	3.23 B ON MAR 31	0.003 ON JUL 21	6 930	1986
1987	---	1.86 B ON APR 15	0 ON AUG 4	4 090	1987
1988	---	1.13 B ON MAR 27	0 ON JUL 15	5 370	1988
1989	---	8.30 ON APR 12	0.0038 ON MAR 1	7 110	1989
1970	---	15.6 ON APR 26 *	0 ON AUG 23	9 390	1970
1971	---	6.57 B ON APR 8	0.006 ON AUG 31	8 820	1971
1972	---	1.59 B ON APR 12	0 ON OCT 15	8 200	1972
1973	1.64 AT 17:57 CST ON JUL 26	1.28 ON JUL 26	0.037 ON AUG 30	4 880	1973
1974	9.23 B AT 18:00 CST ON APR 17 *	7.50 ON APR 18	0 ON JUL 3	9 820	1974
1975	3.31 B AT 14:00 CST ON APR 18	2.31 ON APR 29	0.003 ON AUG 6	6 810	1975
1976	---	4.78 ON APR 7	0 ON JUL 29	5 540	1976
1977	0.677 AT 23:35 CST ON MAY 19	0.510 ON MAY 20	0 B ON MAR 1	2 180	1977
1978	1.28 B AT 21:56 CST ON APR 12	1.26 B ON APR 10	0 ON AUG 10	3 870	1978
1979	7.78 AT 16:48 CST ON APR 21	5.77 ON APR 21	0 ON AUG 27	7 840	1979
1980	---	1.86 B ON APR 6	0 ON JUN 4	3 320	1980
1981	---	0.6338 ON MAR 30	0 ON JUL 28	3 280	1981
1982	3.81 AT 00:48 CST ON JUL 19	3.69 ON JUL 18	0 B ON MAR 1	4 870	1982
1983	7.86 B AT 15:16 CST ON APR 9	6.67 B ON APR 9	0 B ON MAR 1	5 860	1983
1984	2.64 AT 10:26 CST ON APR 14	1.93 ON APR 14	0 B ON MAR 1	3 270	1984
1985	4.43 AT 18:11 CST ON APR 4	2.30 B ON APR 4	0 B ON MAR 1	6 340	1985
1986	8.59 AT 04:44 CST ON MAY 7	4.32 ON MAY 7	0.030 ON JUL 9	9 100	1986
1987	3.86 B AT 17:33 CST ON APR 5	3.35 B ON APR 6	0.010 ON JUN 20	4 910	1987
1988	1.25 B AT 17:23 CST ON APR 5	0.9778 ON APR 5	0.012 ON JUN 24	2 800	1988
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		5 850	MEAN

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.432	0.272	0.064	0.171	0.657	0.114	---	---	1915
1916	---	---	---	3.53	2.57	2.39	1.93	0.376	0.244	0.468	0.572	0.283	---	1916
1917	---	---	---	1.42	2.17	0.295	0.343	0.122	0.452	0.104	0.128	---	---	1917
1918	---	---	---	0.729	0.748	0.498	0.184	0.217	0.810	0.172	0.146	0.085	---	1918
1919	0.057	0.028	0.057	2.58	1.05	0.295	0.413	0.174	0.523	---	---	---	---	1919
MEAN	0.057	0.028	0.057	2.06	1.63	0.774	0.526	0.191	0.440	0.355	0.240	0.184	---	MEAN

LOCATION - LAT 50 33 50 N DRAINAGE AREA, 208 km²
LONG 99 53 30 W NATURAL FLOW

WHIRLPOOL RIVER AT DANVERS - STATION NO. 05MF005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	---	---	---	1916
1917	---	---	---	---	1917
1918	---	2.75 ON MAY 27	---	---	1918
1919	---	4.81 ON APR 11 *	0.0288 ON FEB 1 *	---	1919
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		---	MEAN

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1912	---	---	---	---	58.5	26.8	28.1	21.7	48.1	46.2	28.3	2.83	---	1912
1913	---	---	---	45.3	23.7	11.9	16.8	11.1	6.48	16.9	5.51	1.42	---	1913
1914	0.425	0.283	0.566	12.7	24.2	30.6	20.1	3.14	4.86	17.0	7.75	2.10	10.3	1914
1915	0.532	0.342	0.663	13.1	31.4	19.7	12.6	2.36	1.26	7.56	5.94	2.83	8.24	1915
1916	0.899	0.615	0.443	58.0	56.9	22.3	30.2	11.5	7.96	9.36	10.1	1.42	17.5	1916
1917	0.670	0.622	0.466	20.3	23.7	6.20	4.85	5.56	4.62	1.89	1.54	0.537	6.84	1917
1918	---	---	---	8.76	9.37	16.1	8.00	3.99	1.29	2.87	15.3	2.56	---	1918
1919	0.657	0.531	2.84	27.6	16.9	8.50	58.7	7.04	11.3	7.80	3.23	1.06	12.3	1919
1920	0.207	0.165	0.764	21.2	36.5	44.9	4.85	0.278	0.542	4.75	3.85	1.24	9.82	1920
1921	0.841	1.01	1.32	54.0	34.4	15.8	16.8	25.3	20.8	12.8	5.88	1.86	16.1	1921
1922	0.839	0.634	0.848	25.1	79.2	27.8	14.3	14.7	18.9	9.13	18.1	---	---	1922
1923	---	---	---	---	67.7	21.2	13.5	10.2	6.96	7.05	3.40	---	---	1923
1924	---	---	---	---	---	50.6	30.2	7.67	11.8	3.36	9.68	---	---	1924
1925	---	---	---	42.5	30.5	93.0	33.6	11.8	11.2	18.0	---	---	---	1925
1926	---	---	---	8.78	8.78	36.2	30.4	14.0	20.5	39.3	18.4	---	---	1926
1927	---	---	---	---	122	40.2	19.2	4.85	7.83	17.0	15.8	---	---	1927
1928	---	---	---	---	13.7	48.7	88.0	22.7	9.11	5.87	4.28	3.82	---	1928
1929	2.89	3.40	5.10	7.51	8.87	14.0	9.63	2.75	3.09	3.82	---	---	---	1929
1930	---	---	---	---	60.2	18.7	11.5	1.51	1.45	3.12	---	---	---	1930
1931	---	---	---	28.2	23.3	7.85	1.80	0.884	1.41	2.86	4.28	---	---	1931
1932	---	---	---	---	25.4	3.15	2.28	1.16	0.588	1.88	---	---	---	1932
1933	---	---	---	---	35.1	19.4	0.835	0.478	0.831	0.857	---	---	---	1933
1934	---	---	---	---	10.5	3.47	0.914	0.829	0.741	1.11	---	---	---	1934
1935	---	---	---	---	20.4	5.10	3.88	1.27	1.23	2.28	---	---	---	1935
1936	---	---	---	---	14.9	3.85	0.711	0.520	0.977	---	---	---	---	1936
MEAN	0.907	0.845	1.45	26.7	36.4	22.7	18.7	7.85	7.84	10.3	8.53	1.95	11.5	MEAN

LOCATION - LAT 49 57 15 N DRAINAGE AREA, 3 760 km^2
LONG 95 58 00 W NATURAL FLOW

WHITEMOUTH RIVER AT WHITEMOUTH - STATION NO. 05PH001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1912	---	---	---	---	1912
1913	---	80.7 ON APR 12	---	---	1913
1914	---	63.7 ON JUN 4	0.2838 ON FEB 1	328 000	1914
1915	---	48.7 ON MAY 12	0.283RB ON FEB 15	260 000	1915
1916	---	148 ON APR 21	0.396 ON MAR 22	553 000	1916
1917	---	42.5 ON APR 23	0.1138 ON DEC 28	188 000	1917
1918	---	43.8 ON JUN 4	---	---	1918
1919	---	150 ON JUL 4	0.3118 ON FEB 2	387 000	1919
1920	---	81.8 ON JUN 1	0.026 ON AUG 26 *	313 000	1920
1921	---	85.8B ON APR 14	0.783B ON JAN 1	508 000	1921
1922	---	130 ON MAY 20	---	---	1922
1923	---	---	---	---	1923
1924	---	---	---	---	1924
1925	---	122 ON JUN 8	---	---	1925
1926	---	101 ON JUN 25	---	---	1926
1927	---	164 ON MAY 12 *	---	---	1927
1928	---	107 ON JUL 11	---	---	1928
1929	---	29.0 ON MAY 31	---	---	1929
1930	---	128 ON MAY 15	---	---	1930
1931	---	---	---	---	1931
1932	---	---	---	---	1932
1933	---	85.2B ON APR 24	---	---	1933
1934	---	---	---	---	1934
1935	---	---	---	---	1935
1936	---	---	---	---	1936
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986		382 000	MEAN

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH005

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1973	---	---	---	---	0.139	0.083	0.066	0.133	0.272	0.380	---	---	---	1973
1974	---	---	0	0.743	3.20	3.08	1.61	1.21	1.37	1.34	---	---	1.55	1974
1975	---	---	1.37	1.35	1.88	1.28	1.02	0.880	0.478	0.481	---	---	1.03	1975
1976	---	---	0.885	0.884	0.700	0.424	0.230	0.108	0.061	0.027	---	---	0.388	1976
1977	---	---	0.004	0.080	0.104	0.058	0.045	0.021	0.024	0.085	---	---	0.048	1977
1978	---	---	0	0.301	0.581	0.280	0.154	0.084	0.030	0.002	---	---	0.174	1978
1979	---	---	0	0.112	0.401	0.331	0.130	0.068	0.056	0.032	---	---	0.141	1979
1980	---	---	0.008	0.084	0.078	0.013	0.004	0.011	0.013	0.005	---	---	0.027	1980
MEAN	---	---	0.295	0.505	0.858	0.892	0.394	0.274	0.287	0.282	---	---	0.480	MEAN

LOCATION - LAT 49 16 50 N DRAINAGE AREA, 297 km²
LONG 95 36 40 W REGULATED

WHITEMOUTH RIVER BELOW OUTLET OF WHITEMOUTH LAKE - STATION NO. 05PH005

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1973	---	---	---	---	1973
1974	4.30 AT 12:00 CST ON MAY 23 *	4.19 ON MAY 23 *	0 B ON MAR 1 *	32 900	1974
1975	2.06 AT 03:25 CST ON MAY 5	2.03 ON MAY 4	0.422 ON OCT 13	21 800	1975
1976	1.45 AT 16:32 CST ON APR 17	1.16 ON APR 17	0.0038 ON OCT 30	8 200	1976
1977	0.311 AT 16:21 CST ON MAY 5	0.170 ON MAY 16	0 B ON MAR 1	1 010	1977
1978	0.8888 AT 08:26 CST ON APR 20	0.674 ON APR 27	0 B ON MAR 1	3 670	1978
1979	0.516 AT 05:00 CST ON JUN 2	0.470 ON MAY 11	0 B ON MAR 1	2 980	1979
1980	0.191 AT 23:59 CST ON APR 23	0.189 ON APR 23	0 ON JUL 11	587	1980
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		10 200	MEAN

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1942	---	---	---	---	---	13.9	2.72	1.60	19.3	5.80	---	---	---	1942
1943	---	---	---	32.0	40.5	84.7	32.4	8.97	5.26	3.26	---	---	---	1943
1944	---	---	---	---	15.7	59.7	28.5	18.2	26.8	10.7	22.6	---	---	1944
1945	---	---	---	57.7	36.6	24.1	19.2	3.21	15.5	14.0	---	---	---	1945
1946	---	---	---	33.7	26.1	6.74	4.81	0.900	2.77	8.87	---	---	---	1946
1947	---	---	---	---	38.6	45.5	14.4	28.3	11.7	22.5	---	---	---	1947
1948	---	---	---	47.2	53.7	10.1	19.2	23.5	3.84	1.26	---	---	---	1948
1949	---	---	0	24.7	25.5	5.14	1.66	7.42	2.76	23.5	26.7	---	---	1949
1950	---	---	---	---	144	43.5	28.0	4.42	18.5	38.0	---	---	---	1950
1951	---	---	2.46	28.0	37.0	14.2	2.17	1.14	4.34	5.85	---	---	---	1951
1952	---	---	0.185	4.98	1.33	1.12	4.56	1.06	0.360	0.419	---	---	---	1952
1953	---	---	0.584	7.63	7.18	24.3	12.1	1.20	1.46	1.59	---	---	---	1953
1954	---	---	0.085	23.7	48.5	37.0	7.93	1.07	7.61	9.14	6.71	---	---	1954
1955	---	---	---	55.3	31.3	26.4	5.55	0.368	0.284	0.881	---	---	---	1955
1956	---	---	0.283	18.0	45.5	18.5	21.3	10.9	27.9	10.7	26.5	2.87	---	1956
1957	1.25	1.01	3.75	37.1	42.5	45.3	24.1	2.33	1.45	1.87	1.72	0.429	13.6	1957
1958	0.857	0.827	1.75	3.22	2.47	2.03	22.5	6.20	1.27	3.43	9.18	2.89	4.74	1958
1959	0.263	0.347	0.452	27.8	47.5	48.1	13.5	15.5	29.8	60.5	18.3	3.62	22.1	1959
1960	1.95	0.921	0.987	67.5	38.0	23.6	7.12	2.38	2.26	1.03	4.53	0.891	12.5	1960
1961	0.221	0.310	0.979	11.0	17.0	5.10	0.700	0.363	0.284	2.45	1.74	0.447	3.40	1961
1962	0.305	0.292	0.214	13.5	70.9	67.1	31.9	36.1	13.7	8.56	8.88	4.81	21.7	1962
1963	1.35	1.15	3.56	46.6	45.7	58.4	16.8	7.55	1.38	0.599	0.830	0.333	15.3	1963
1964	0.224	0.159	0.321	21.8	41.4	29.1	12.8	5.04	9.35	25.4	8.13	2.39	13.3	1964
1965	1.20	0.701	0.600	48.3	85.1	36.8	38.4	7.12	11.4	26.1	18.4	13.9	22.1	1965
1966	7.21	2.46	3.52	85.7	101	33.9	34.2	9.13	11.5	7.83	5.22	2.35	25.1	1966
1967	1.81	0.858	3.17	75.2	51.2	15.3	8.22	5.12	0.453	0.475	0.293	0.277	13.5	1967
1968	0.444	0.206	2.56	17.1	19.2	32.6	23.9	13.1	17.3	14.5	9.82	2.34	12.8	1968
1969	1.21	1.78	1.92	51.3	36.2	21.3	15.3	5.48	3.43	8.73	4.09	1.30	12.7	1969
1970	0.808	0.718	0.640	28.4	108	67.3	11.3	2.62	5.15	7.90	15.2	3.08	20.9	1970
1971	1.26	1.01	1.21	33.8	28.8	20.2	11.3	5.08	1.34	2.47	9.63	1.86	9.64	1971
1972	0.485	0.356	1.08	24.8	31.3	7.21	1.13	0.475	1.39	3.76	4.30	0.380	8.39	1972
1973	0.216	0.159	2.73	4.17	5.73	37.0	20.1	19.2	18.3	44.4	15.4	7.00	14.6	1973
1974	1.48	0.845	0.577	89.2	134	40.6	3.44	8.33	9.05	8.43	4.73	1.78	25.1	1974
1975	1.93	1.58	1.77	22.8	43.4	28.7	21.8	1.91	1.81	1.84	1.90	0.834	11.0	1975
1976	0.557	0.443	0.832	40.2	21.3	17.8	8.16	0.838	0.848	1.53	0.124	0.088	7.85	1976
1977	0.202	0.251	0.446	1.39	1.89	7.34	4.43	0.767	7.08	10.2	5.56	2.80	3.54	1977
1978	1.05	0.354	0.385	53.1	41.4	11.1	12.2	2.20	0.668	0.886	0.639	0.385	10.6	1978
1979	0.304	0.252	0.275	32.3	58.1	25.5	2.13	0.312	0.258	0.502	0.583	0.368	10.1	1979
1980	0.440	0.334	0.163	8.15	3.53	0.486	0.246	0.490	1.89	4.82	2.87	0.474	1.88	1980
1981	0.328	0.748	1.05	1.92	3.09	16.7	6.55	1.53	20.5	24.8	13.5	3.62	7.85	1981
1982	0.333	0.182	0.486	34.4	33.7	20.7	37.7	14.1	2.86	18.3	8.20	1.45	14.5	1982
1983	0.493	0.382	2.01	20.4	28.5	25.7	13.9	1.74	0.312	0.699	0.838	0.586	7.99	1983
1984	0.178	0.144	1.98	4.70	5.05	39.0	14.3	2.26	0.188	7.41	7.30	0.871	8.93	1984
1985	0.355	0.327	4.07	16.4	27.1	19.1	14.3	5.28	11.6	11.5	5.22	1.28	9.75	1985
1986	0.845	0.341	5.05	56.6	78.8	7.43	4.06	2.17	2.01	3.60	2.51	1.87	13.8	1986
1987	1.17	0.857	4.59	32.5	8.28	3.40	2.87	3.50	0.353	0.642	0.558	0.384	4.90	1987
1988	0.128	0.082	0.213	3.86	0.769	0.304	5.11	1.80	0.482	0.325	0.374	0.250	1.14	1988
MEAN	0.852	0.825	1.50	31.3	38.1	25.8	13.8	6.30	7.22	10.1	7.56	2.05	11.8	MEAN

LOCATION - LAT 49 55 20 N DRAINAGE AREA, 3 760 km²
LONG 95 57 20 W NATURAL FLOW

WHITEMOUTH RIVER NEAR WHITEMOUTH - STATION NO. 05PH003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1942	---	---	---	---	1942
1943	---	84.6 ON JUN 17	---	---	1943
1944	---	79.6 ON JUN 19	---	---	1944
1945	---	89.2 ON MAR 28	---	---	1945
1946	---	---	---	---	1946
1947	---	73.1 ON JUN 14	---	---	1947
1948	---	132 ON APR 28	---	---	1948
1949	---	47.0 ON OCT 23	0 B ON MAR 1 *	---	1949
1950	---	212 ON MAY 13	---	---	1950
1951	---	85.8 ON MAY 4	---	---	1951
1952	---	8.88 ON JUL 5	---	---	1952
1953	---	35.7 ON JUN 7	---	---	1953
1954	---	92.8 ON MAY 2	---	---	1954
1955	---	86.7 ON APR 23	---	---	1955
1956	---	64.0 ON MAY 14	---	---	1956
1957	---	89.5 ON APR 28	0.4818 ON DEC 31	430 000	1957
1958	---	34.5 ON JUL 25	0.3988 ON JAN 7	150 000	1958
1959	---	121 ON JUN 12	0.1428 ON JAN 22	687 000	1959
1960	---	172 ON APR 17	0.5418 ON DEC 26	387 000	1960
1961	---	22.4 ON MAY 14	0.0238 ON JAN 25	107 000	1961
1962	---	188 ON MAY 26	0.1278 ON FEB 27	686 000	1962
1963	---	81.8 B ON APR 9	0.2728 ON DEC 30	483 000	1963
1964	---	77.0 ON MAY 9	0.1278 ON FEB 20	420 000	1964
1965	---	100 B ON APR 15	0.3408 ON FEB 25	697 000	1965
1966	---	140 ON APR 18	1.72 B ON DEC 27	791 000	1966
1967	---	117 ON APR 25	0.1428 ON NOV 26	427 000	1967
1968	---	68.2 ON JUN 13	0.0898 ON FEB 20	403 000	1968
1969	---	97.4 B ON APR 12	0.8518 ON JAN 3	400 000	1969
1970	---	137 A ON MAY 3	0.4838 ON MAR 14	858 000	1970
1971	---	53.5 ON APR 21	0.255 ON APR 5	310 000	1971
1972	59.78 AT 13:10 CST ON APR 18	50.1 ON APR 29	0.1598 ON MAR 15	202 000	1972
1973	---	101 ON JUN 20	0.1228 ON FEB 27	480 000	1973
1974	239 AT 01:02 CST ON APR 27 *	237 ON APR 24 *	0.4838 ON MAR 30	781 000	1974
1975	84.0 AT 11:15 CST ON JUL 3	83.7 ON JUL 3	0.8038 ON DEC 28	345 000	1975
1976	54.8 AT 20:33 CST ON APR 20	54.7 ON APR 20	0.0688 ON DEC 5	242 000	1976
1977	---	22.8 ON JUN 20	0.1448 ON JAN 1	112 000	1977
1978	---	105 ON APR 21	0.3038 ON FEB 17	326 000	1978
1979	---	89.0 B ON APR 21	0.149 ON AUG 24	319 000	1979
1980	---	12.8 B ON APR 8	0.107 ON AUG 3	62 700	1980
1981	53.5 AT 12:00 CST ON SEP 10	52.9 ON SEP 10	0.0098 ON FEB 12	248 000	1981
1982	117 B AT 21:09 CST ON APR 18	92.1 B ON APR 18	0.0098 ON FEB 4	459 000	1982
1983	46.4 AT 02:38 CST ON MAY 15	46.0 ON MAY 15	0.0388 ON MAR 27	252 000	1983
1984	63.1 AT 00:47 CST ON JUN 14	62.5 ON JUN 14	0.0388 ON FEB 12	219 000	1984
1985	48.1 AT 17:42 CST ON JUN 30	48.7 ON JUL 1	0.0308 ON MAR 16	307 000	1985
1986	132 AT 16:20 CST ON MAY 5	131 ON MAY 5	0.0658 ON MAR 10	437 000	1986
1987	47.7 AT 02:04 CST ON APR 16	47.7 ON APR 16	0.211 ON SEP 18	154 000	1987
1988	---	13.0 ON JUL 11	0.0698 ON FEB 24	36 200	1988
				376 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1972	---	---	4.77	29.9	19.6	11.3	3.78	1.70	1.08	3.43	---	---	---	1972
1973	---	---	4.00	4.68	5.61	4.12	1.72	2.14	3.54	4.39	1.95	1.27	---	1973
1974	0.883	0.301	0.437	57.7	53.7	23.3	8.21	1.21	1.08	1.98	2.48	1.17	12.5	1974
1975	0.801	0.574	0.742	16.2	22.3	8.63	1.38	4.91	14.4	16.0	12.0	4.98	8.43	1975
1976	3.35	2.39	1.74	112	43.2	9.80	2.46	0.788	0.606	3.24	1.20	0.214	15.0	1976
1977	0.187	0.267	1.33	4.80	5.75	3.84	3.83	1.40	3.55	2.60	1.75	0.828	2.46	1977
1978	0.783	0.623	1.13	24.6	8.77	5.49	1.56	0.889	0.824	2.67	4.28	1.50	4.41	1978
1979	0.753	0.461	0.830	56.6	93.4	31.8	9.39	2.53	1.35	1.54	1.89	1.39	18.9	1979
1980	0.765	0.884	0.806	9.75	3.16	1.13	0.632	4.12	1.81	3.55	2.84	1.49	2.57	1980
1981	0.511	1.34	3.15	5.30	3.74	5.85	0.921	0.750	0.882	2.45	2.39	0.946	2.33	1981
1982	0.185	0.181	0.528	15.0	10.2	4.23	4.37	1.44	0.884	3.13	2.09	0.720	3.87	1982
1983	0.851	0.516	0.487	50.4	16.7	7.80	3.01	0.915	0.436	1.89	3.47	1.14	7.27	1983
1984	0.281	0.409	2.41	5.59	6.57	3.23	1.02	0.433	0.287	3.63	1.07	0.718	2.22	1984
1985	0.406	0.297	0.42	14.9	4.78	2.27	1.12	2.36	1.78	3.17	2.26	1.35	3.69	1985
1986	0.677	0.825	5.42	29.5	35.7	15.1	9.13	2.89	1.25	3.28	1.88	1.22	9.21	1986
1987	0.781	0.726	2.38	39.0	7.84	3.27	1.20	4.63	0.706	1.62	1.68	1.17	5.39	1987
1988	0.226	0.126	0.973	5.33	3.92	0.945	0.791	0.149	0.188	0.489	0.825	0.385	1.16	1988
MEAN	0.764	0.669	2.55	25.5	20.3	8.24	3.06	1.95	2.01	3.38	2.74	1.28	6.46	MEAN

LOCATION - LAT 50 05 03 N LONG 98 35 00 W DRAINAGE AREA, 6 380 km^2 REGULATED SINCE 1980

WHITEMUD RIVER AT WESTBOURNE - STATION NO. 05LL002

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1972	---	---	---	---	1972
1973	15.5 AT 00:43 CST ON SEP 8	14.6 ON SEP 8	---	---	1973
1974	---	244 A ON APR 20	0.3218 ON FEB 18	385 000	1974
1975	83.1 AT 05:39 CST ON MAY 3	82.0 ON MAY 3	0.5188 ON FEB 1	288 000	1975
1976	178 AT 22:27 CST ON APR 20	177 ON APR 21	0.1058 ON DEC 9	475 000	1976
1977	13.3 AT 23:30 CST ON MAY 22	13.2 ON MAY 23	0.1538 ON JAN 27	76 100	1977
1978	---	40.58 ON APR 18	0.4385 ON JAN 31	138 000	1978
1979	314 AT 07:30 CST ON APR 25 *	305 ON APR 25 *	0.3788 ON FEB 27	831 000	1979
1980	21.3 AT 10:43 CST ON AUG 21	17.88 ON APR 11	0.235 ON AUG 2	81 400	1980
1981	13.08 AT 08:15 CST ON APR 4	12.38 ON APR 6	0.305 ON SEP 21	73 500	1981
1982	---	53.98 ON APR 19	0.0648 ON JAN 25	113 000	1982
1983	105 B AT 07:18 CST ON APR 11	86.48 ON APR 11	0.1508 ON MAR 28	230 000	1983
1984	13.9 AT 23:40 CST ON MAY 6	13.6 ON MAY 6	0.057 ON SEP 7	70 300	1984
1985	59.38 AT 23:17 CST ON MAR 26	54.58 ON MAR 26	0.1388 ON MAR 16	116 000	1985
1986	78.5 AT 22:48 CST ON MAY 7	77.1 ON MAY 7	0.882 ON NOV 8	280 000	1986
1987	95.4 AT 14:37 CST ON APR 7	85.7 ON APR 10	0.3838 ON JAN 24	170 000	1987
1988	23.0 AT 16:47 CST ON APR 8	20.7 ON APR 8	0 E ON AUG 24 *	37 300	1988
				204 000	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1943	---	---	1.88	5.78	1.81	3.78	2.78	0.670	0.117	0.238	---	---	2.74	1943
1944	---	---	---	1.03	1.37	3.02	2.38	0.273	0.382	0.402	0.484	---	1.25	1944
1945	---	---	---	2.81	2.02	0.880	0.722	0.118	0.102	0.271	---	---	1.00	1945
1946	---	---	---	5.78	1.13	0.462	0.402	0.068	0.059	0.506	---	---	1.17	1946
1947	---	---	---	6.87	2.42	1.81	2.24	0.362	0.106	0.156	---	---	2.28	1947
1948	---	---	---	5.72	3.98	0.498	0.293	0.428	0.087	0.174	---	---	2.15	1948
1949	---	---	---	7.32	1.36	0.754	0.348	0.484	0.038	0.287	0.808	---	1.58	1949
1950	---	---	---	3.13	5.84	3.70	2.88	0.784	0.384	0.405	---	---	2.87	1950
1951	---	---	---	5.20	2.47	1.82	0.290	0.280	0.292	0.686	---	---	1.82	1951
1952	---	---	---	3.58	0.840	1.88	2.23	0.348	1.26	0.333	0.343	---	1.44	1952
1953	---	---	---	10.3	4.81	8.41	1.87	0.386	0.254	0.388	0.243	---	3.42	1953
1954	---	---	0.057	7.45	2.88	6.48	1.88	0.282	1.08	1.97	0.801	---	3.10	1954
1955	---	---	0.225	13.8	4.85	3.38	2.28	0.287	0.282	0.878	---	---	3.80	1955
1956	---	---	0.085	12.8	16.0	8.00	7.77	0.833	0.435	1.37	---	---	5.78	1956
1957	---	---	3.30	8.18	3.25	2.08	1.48	0.814	0.441	0.837	---	---	2.09	1957
MEAN	---	---	1.11	7.24	3.88	2.98	2.00	0.431	0.353	0.882	0.495	---	2.44	MEAN

LOCATION - LAT 50 13 05 N LONG 98 55 26 W DRAINAGE AREA, 1 880 km^2 NATURAL FLOW

REMARKS - HIGHER MAXIMUM DISCHARGES ARE KNOWN TO HAVE OCCURRED OUTSIDE THE STANDARD PERIOD IN 1945 AND 1957

WHITEMUD RIVER NEAR GLADSTONE - STATION NO. 05LL004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1943	---	19.5 ON APR 10	0.088 ON SEP 28	50 700	1943
1944	---	8.89 ON JUL 1	0.0858 ON APR 1	23 000	1944
1945	---	13.7 ON APR 1	0.023 ON SEP 8	18 500	1945
1946	---	27.2 ON APR 1	0 ON SEP 17 *	21 700	1946
1947	---	25.0 B ON APR 15	0.040 ON AUG 13	42 100	1947
1948	---	32.3 B ON APR 21 *	0.008 ON SEP 24	39 580	1948
1949	---	16.3 B ON APR 10	0.003 ON SEP 11	28 950	1949
1950	---	13.6 ON MAY 13	0.288 ON OCT 5	47 400	1950
1951	---	12.6 B ON APR 5	0.142 ON AUG 11	28 000	1951
1952	---	10.9 ON JUL 3	0.198 ON AUG 18	26 700	1952
1953	---	29.4 B ON APR 7	0.196 ON SEP 8	83 200	1953
1954	---	24.7 B ON APR 15	0.0578 ON APR 1	57 300	1954
1955	---	24.4 B ON APR 9	0.085 ON AUG 20	88 400	1955
1956	---	31.7 ON APR 28	0.085 ON AUG 23	125 000	1956
1957	---	16.2 ON APR 28	0.142 ON OCT 1	38 800	1957
				45 200	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	3.56	1.21	0.527	0.367	0.052	0.103	0.928	---	---	---	1958
1959	---	---	0.509	3.03	1.47	0.860	0.253	0.021	0.289	0.858	---	---	---	1959
1960	---	---	0.170	37.9	5.01	1.76	0.418	0.134	0.140	0.518	---	---	---	1960
1961	---	---	0.529	1.46	1.57	0.634	0.040	0.067	0.348	0.578	---	---	---	1961
1962	---	---	0.114	11.2	2.48	1.53	0.511	0.614	0.417	0.498	0.642	0.182	---	1962
1963	0.003	0	3.42	5.58	1.42	2.40	2.24	0.163	0.120	0.380	0.427	---	---	1963
1964	---	---	0.265	3.41	3.04	0.857	0.318	0.198	0.247	0.179	0.143	0.087	---	1964
1965	0.108	0.153	0.199	21.2	3.76	2.06	2.15	1.22	2.84	0.877	0.868	0.548	2.85	1965
1966	0.302	0.193	4.39	8.13	4.02	1.43	0.270	0.254	0.367	0.099	0.488	0.365	1.78	1966
1967	0.268	0.209	0.240	16.8	3.80	0.682	0.223	0.117	0.094	0.187	0.206	0.148	1.88	1967
1968	0.098	0.208	1.80	2.26	1.12	0.467	0.319	0.740	0.689	0.486	0.533	0.158	0.743	1968
1969	0.158	0.242	0.329	28.1	3.60	1.61	8.46	2.26	0.687	1.06	1.00	0.383	3.87	1969
1970	0.184	0.294	0.318	34.0	24.9	3.63	1.55	0.397	0.467	0.738	0.807	0.337	5.63	1970
1971	0.311	0.260	0.321	6.89	2.77	10.4	9.22	1.23	0.437	2.18	1.41	0.521	3.00	1971
1972	0.253	0.208	3.35	16.5	4.82	1.29	0.542	0.270	0.157	0.386	0.454	0.116	2.35	1972
1973	0.156	0.197	1.45	1.41	1.60	1.07	0.389	0.662	2.43	1.34	0.708	0.441	0.881	1973
1974	0.253	0.280	0.421	32.8	16.9	3.00	0.380	0.148	0.170	0.433	0.485	0.265	4.82	1974
1975	0.305	0.304	0.348	11.3	9.47	1.89	0.381	2.91	4.23	2.09	1.34	0.610	3.10	1975
1976	0.640	0.614	0.549	31.4	2.67	1.75	0.377	0.045	0.024	0.265	0.251	0.130	3.18	1976
1977	0.144	0.157	0.551	1.37	1.98	1.40	2.70	0.703	2.17	1.34	0.788	0.387	1.15	1977
1978	0.383	0.220	0.275	10.5	3.31	1.24	0.286	0.170	0.245	0.358	0.348	0.265	1.46	1978
1979	0.231	0.172	0.300	34.0	24.6	3.87	1.09	0.154	0.133	0.368	0.333	0.206	5.46	1979
1980	0.173	0.186	0.241	4.61	0.576	0.246	0.170	0.894	0.627	0.783	0.821	0.297	0.807	1980
1981	0.144	1.26	1.04	1.65	0.988	0.869	0.293	0.307	0.167	0.847	0.628	0.259	0.882	1981
1982	0.081	0.089	0.189	5.80	2.10	0.901	1.78	0.368	0.229	0.801	0.456	0.184	1.07	1982
1983	0.198	0.103	0.181	25.9	3.92	1.18	0.748	0.202	0.282	0.400	0.292	0.148	2.77	1983
1984	0.190	0.203	0.556	1.82	2.21	0.727	0.191	0.136	0.219	0.675	0.298	0.159	0.808	1984
1985	0.091	0.081	0.778	5.84	0.686	0.524	0.312	0.877	0.513	0.762	0.438	0.274	0.844	1985
1986	0.273	0.258	4.87	8.48	8.77	0.625	1.21	0.268	0.182	0.387	0.267	0.355	2.23	1986
1987	0.238	0.238	0.733	16.4	0.614	0.382	0.533	3.69	0.301	0.413	0.387	0.304	2.61	1987
1988	0.055	0.152	0.467	1.53	1.30	0.244	0.098	0.135	0.088	0.177	0.148	0.130	0.377	1988
MEAN	0.206	0.252	0.957	12.8	4.73	1.81	1.22	0.628	0.678	0.873	0.548	0.278	2.24	MEAN

LOCATION - LAT 50 11 15 N DRAINAGE AREA, 1 650 km²
LONG 99 06 10 W REGULATED SINCE 1960

WHITEMUD RIVER NEAR KEYES - STATION NO. 05LL005

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	12.3 B ON MAR 29	---	---	1958
1959	---	5.380 ON APR 9	0 B ON MAR 1 *	---	1959
1960	---	130 ON APR 16	---	---	1960
1961	---	2.38 ON APR 24	0 ON JUL 8	---	1961
1962	---	27.1 ON APR 20	0 B ON DEC 26	---	1962
1963	---	21.8 B ON MAR 26	0 B ON JAN 1	---	1963
1964	---	12.7 B ON APR 10	---	---	1964
1965	---	85.1 ON APR 14	0.1028 ON JAN 1	83 100	1965
1966	---	28.5 B ON APR 2	0.025 ON OCT 10	56 100	1966
1967	---	67.4 B ON APR 16	B.025 ON AUG 30	59 400	1967
1968	---	13.6 B ON MAR 30	0.0688 ON JAN 8	23 500	1968
1969	123 AT 06:05 CST ON APR 14	114 ON APR 13	0.1428 ON JAN 1	125 000	1969
1970	243 AT 20:36 CST ON APR 26 *	207 ON APR 27 *	0 B ON JAN 4	177 000	1970
1971	28.9 AT 20:26 CST ON JUL 13	24.8 ON JUL 13	0.2558 ON MAR 2	84 700	1971
1972	---	33.4 ON APR 18	0.087 ON DEC 18	74 300	1972
1973	---	15.3 ON SEP 6	0.116 ON JUL 23	31 300	1973
1974	157 AT 10:31 CST ON APR 18	140 ON APR 18	0.093 ON SEP 21	146 000	1974
1975	86.3 AT 23:20 CST ON APR 30	54.6 ON MAY 1	0.181 ON JUL 14	87 800	1975
1976	---	86.5 ON APR 11	0.016 ON SEP 9	101 000	1976
1977	12.3 AT 10:00 CST ON JUL 13	11.8 ON JUL 13	0.1258 ON JAN 20	36 100	1977
1978	---	26.0 B ON APR 10	0.086 ON SEP 11	46 000	1978
1979	195 AT 02:23 CST ON APR 23	181 ON APR 23	0.052 ON SEP 25	172 000	1979
1980	16.6 AT 20:08 CST ON APR 9	12.8 ON APR 8	0.057 ON AUG 2	25 500	1980
1981	---	8.078 ON FEB 21	0.012 ON AUG 30	21 500	1981
1982	26.3 B AT 13:52 CST ON APR 15	16.8 B ON APR 15	0.0758 ON JAN 18	33 600	1982
1983	123 AT 11:34 CST ON APR 22	108 ON APR 22	0.0808 ON FEB 6	87 400	1983
1984	8.18 AT 10:13 CST ON MAY 7	7.51 ON MAY 7	0.0558 ON DEC 27	19 200	1984
1985	16.9 B AT 08:02 CST ON APR 8	15.6 B ON APR 6	0.0608 ON FEB 11	29 700	1985
1986	45.7 AT 22:16 CST ON MAR 31	39.5 ON APR 1	0.092 ON AUG 29	70 400	1986
1987	76.6 AT 17:25 CST ON APR 7	63.5 ON APR 8	0.1208 ON DEC 31	63 400	1987
1988	7.828 AT 18:52 CST ON APR 6	6.388 ON APR 6	0.033 ON AUG 1	11 900	1988
				70 700	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1958	---	---	---	13.1	3.62	1.61	1.63	0.185	0.209	1.12	---	---	---	1958
1959	---	---	0.973	7.39	4.66	1.95	0.935	0.430	1.06	2.95	---	---	2.51	1959
1960	---	---	0.536	71.9	31.5	9.27	2.44	1.18	0.731	0.853	---	---	14.7	1960
1961	---	---	1.20	5.22	5.33	1.88	0.418	0.089	0.349	0.664	---	---	1.88	1961
1962	---	---	0.160	17.1	7.16	3.37	0.852	1.96	3.31	2.20	---	---	4.46	1962
1963	---	---	7.32	12.9	5.46	12.6	8.04	2.53	1.16	1.43	---	---	5.53	1963
1964	---	---	0.136	10.9	7.94	3.31	1.88	0.930	1.88	1.36	---	---	3.51	1964
1965	---	---	0.238	27.0	10.3	7.51	4.38	2.11	4.54	3.48	---	---	7.37	1965
1966	---	---	2.97	24.7	14.7	5.48	2.05	1.06	0.777	0.991	---	---	6.87	1966
1967	---	---	0.798	26.3	14.4	5.98	1.53	0.271	0.867	0.518	---	---	6.18	1967
1968	---	---	2.21	7.53	5.72	2.95	1.22	2.83	3.31	2.42	---	---	3.47	1968
1969	---	---	0.377	51.7	22.8	9.56	17.3	6.19	2.78	3.78	---	---	14.2	1969
1970	---	---	8.681	56.6	116	24.2	9.87	3.88	3.87	3.50	---	---	27.3	1970
1971	---	---	8.629	18.0	10.6	10.6	17.2	4.22	2.33	6.31	---	---	9.81	1971
MEAN	---	---	1.37	25.1	18.7	7.81	4.88	1.85	1.87	2.25	---	---	6.35	MEAN

LOCATION - LAT 50 09 16 N DRAINAGE AREA, 6 230 km²
LONG 98 41 51 W REGULATED SINCE 1980

WHITEMUD RIVER NEAR WOODSIDE - STATION NO. 05LL006

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1958	---	39.1 B ON APR 1	---	---	1958
1959	---	14.9 ON APR 7	0.014B ON MAR 1	53 100	1959
1960	---	200 ON APR 17	0.481 ON SEP 27	311 000	1960
1961	---	6.50 ON MAY 6	0.023 ON AUG 19	40 100	1961
1962	---	55.1 ON APR 22	0.026 ON JUL 3	94 200	1962
1963	---	51.3 B ON MAR 28	0 B ON MAR 1 *	138 000	1963
1964	---	25.6 B ON APR 15	0.113B ON APR 1	74 500	1964
1965	---	126 B ON APR 17	0.170B ON MAR 1	155 000	1965
1966	---	68.3 ON APR 6	0.195 ON AUG 4	141 000	1966
1967	---	66.8 B ON APR 20	0.040 ON SEP 15	131 000	1967
1968	---	19.1 B ON APR 1	0.122 ON JUL 10	73 500	1968
1969	---	187 ON APR 15	0.377B ON MAR 1	201 000	1969
1970	---	328 ON APR 28 *	0.691B ON MAR 1	576 000	1970
1971	---	91.5 B ON APR 11	0.629B ON MAR 1	208 000	1971
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		177 000	MEAN

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1960	---	---	2.31	5.00	10.1	5.85	2.57	1.50	1.02	0.770	---	---	---	1960
1961	---	---	1.37	1.83	2.81	1.71	0.269	0.245	0.082	0.217	---	---	---	1961
1962	---	---	---	---	15.1	21.6	8.28	8.49	8.82	---	---	---	---	1962
1963	---	---	---	6.09	7.56	9.14	7.14	3.97	1.62	---	---	---	---	1963
1964	---	---	---	4.03	11.0	6.30	5.06	5.79	6.00	5.67	4.96	3.56	---	1964
1965	2.59	1.97	2.43	7.55	14.1	12.5	9.81	7.00	6.10	6.97	---	---	---	1965
1966	0.441	0.266	0.486	10.7	19.8	18.0	11.7	4.43	4.39	3.11	1.95	1.80	6.42	1966
1967	1.43	1.39	1.57	8.31	14.0	6.64	1.26	1.02	2.32	1.02	1.12	1.86	3.84	1967
1968	1.21	1.16	1.14	5.16	5.22	6.58	5.15	4.19	3.34	4.13	6.35	4.39	4.26	1968
1969	3.27	2.87	2.62	5.16	8.74	2.77	3.02	2.50	1.92	1.76	3.98	2.46	3.41	1969
1970	0.440	0.898	0.776	3.44	15.6	13.9	3.36	1.60	1.87	2.28	8.53	5.59	4.86	1970
1971	3.36	1.84	1.48	7.80	12.5	5.69	1.69	0.885	0.131	0.093	4.10	2.81	3.55	1971
1972	1.78	1.15	1.32	3.43	3.78	2.87	0.475	0.381	0.550	0.830	5.17	2.03	1.95	1972
1973	1.83	1.24	0.777	0.104	0.084	0.330	1.23	2.47	5.35	10.1	10.5	6.89	3.40	1973
1974	4.02	2.97	2.53	10.6	24.4	26.4	4.27	1.75	6.04	6.58	4.01	2.76	8.04	1974
1975	2.30	2.02	2.08	4.30	11.1	7.19	5.72	1.47	1.82	2.01	0.877	0.879	3.52	1975
1976	1.09	1.03	1.09	5.62	8.62	4.39	1.58	0.213	0.243	0.160	0.096	0.084	2.03	1976
1977	0.081	0.073	0.079	0.068	0.531	6.42	5.75	2.81	3.24	5.52	5.43	6.61	3.07	1977
1978	5.55	3.89	2.80	6.42	19.7	8.72	2.00	0.760	0.761	1.98	1.85	1.57	4.69	1978
1979	1.08	1.02	1.18	2.09	14.4	10.4	1.22	0.347	0.326	1.74	1.87	1.91	3.24	1979
1980	1.61	1.18	0.932	1.28	2.38	1.12	0.332	0.229	1.71	2.58	2.77	2.28	1.63	1980
1981	1.56	1.28	0.276	0.074	0.085	0.464	1.34	0.940	1.77	5.26	5.35	3.75	1.85	1981
1982	2.08	1.39	1.48	3.47	10.2	7.26	2.46	1.49	1.13	3.86	3.08	2.09	3.35	1982
1983	1.86	1.42	1.62	1.27	2.37	5.42	2.10	0.411	0.380	2.37	1.76	1.15	1.83	1983
1984	0.849	0.540	0.488	0.177	0.130	3.92	5.24	1.97	0.365	1.65	4.39	4.13	1.98	1984
1985	4.10	2.80	2.32	0.379	8.59	3.85	3.23	1.77	4.74	5.03	5.78	4.76	3.96	1985
1986	3.58	2.82	2.38	6.38	19.2	5.31	1.13	0.918	0.712	2.74	0.598	0.772	3.88	1986
1987	0.744	0.887	0.873	3.79	2.44	1.10	0.468	0.516	0.285	0.256	0.256	0.219	0.966	1987
1988	0.135	0.187	0.225	0.495	0.336	0.272	0.571	0.381	0.260	0.176	0.298	0.347	0.306	1988
MEAN	1.93	1.49	1.43	4.18	9.49	7.18	3.60	2.08	2.36	3.00	3.56	2.69	3.34	MEAN

LOCATION - LAT 50 02 20 N DRAINAGE AREA, 884 km²
LONG 95 30 20 W REGULATED

WHITESHELL RIVER AT OUTLET OF JESSICA LAKE - STATION NO. 05PG001

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1960	---	11.9 ON MAY 4	---	---	1960
1961	---	6.80 ON APR 2	0.028E ON SEP 3	---	1961
1962	---	31.4 ON JUN 4	---	---	1962
1963	---	9.85 ON JUN 12	---	---	1963
1964	---	12.7 ON MAY 15	---	---	1964
1965	---	15.1 ON MAY 17	---	---	1965
1966	---	21.1 ON MAY 7	0.210E ON MAR 23	203 000	1966
1967	---	15.2 E ON MAY 7	0.288 ON JUL 27	115 000	1967
1968	---	13.4 ON JUN 17	1.13 E ON FEB 26	135 000	1968
1969	9.77 AT 07:38 CST ON MAY 5	9.74 ON MAY 5	1.03 ON JUN 4	108 000	1969
1970	19.8 AT 08:36 CST ON JUN 1	19.7 ON JUN 1	0.153 ON JAN 22	154 000	1970
1971	14.8 AT 16:18 CST ON MAY 11	14.7 ON MAY 15	0.074 ON SEP 26	112 000	1971
1972	12.5 AT 19:44 CST ON OCT 31	12.5 ON NOV 1	0.278 ON AUG 11	81 900	1972
1973	12.8 AT 22:39 CST ON OCT 13	12.5 ON OCT 14	0.071 ON MAY 13	107 000	1973
1974	42.5 AT 15:00 CST ON MAY 24 *	42.2 ON MAY 24 *	0.865 ON AUG 9	285 000	1974
1975	12.0 AT 11:55 CST ON MAY 18	11.9 ON MAY 18	0.738 ON AUG 7	111 000	1975
1976	14.7 AT 14:01 CST ON APR 26	13.9 ON APR 27	0.078 ON NOV 23	84 100	1976
1977	15.3 AT 20:11 CST ON JUN 20	14.2 ON JUN 21	0.026 ON APR 29 *	98 700	1977
1978	25.8 AT 15:47 CST ON MAY 3	24.5 ON MAY 4	0.806 ON OCT 12	148 000	1978
1979	21.1 AT 17:47 CST ON MAY 17	20.0 ON MAY 18	0.293 ON SEP 10	102 000	1979
1980	5.57 AT 18:54 CST ON SEP 22	5.20 ON SEP 23	0.169 ON SEP 5	48 300	1980
1981	11.5 AT 15:55 CST ON OCT 13	10.3 ON OCT 14	0.027 ON MAY 2	58 400	1981
1982	13.3 AT 17:52 CST ON MAY 19	13.0 ON MAY 20	0.871 ON AUG 17	106 000	1982
1983	7.89 AT 17:56 CST ON OCT 11	7.53 ON JUN 2	0.268 ON APR 29	57 700	1983
1984	9.77 AT 13:02 CST ON OCT 26	7.71 ON OCT 26	0.040 ON MAY 8	82 600	1984
1985	15.3 AT 17:25 CST ON MAY 14	14.4 ON MAY 15	0.168 ON APR 10	126 000	1985
1986	24.4 AT 23:33 CST ON MAY 9	23.4 ON MAY 10	0.373 ON NOV 3	122 000	1986
1987	8.78 AT 14:54 CST ON APR 22	8.37 ON APR 23	0.1458 ON DEC 30	30 500	1987
1988	0.743 AT 14:33 CST ON APR 18	0.732 ON APR 18	0.124 ON JAN 5	8 880	1988
				105 000	MEAN

B - ICE CONDITIONS
E - ESTIMATED
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILD GOOSE CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1986	0	0	0.002	0.005	0.003	0	0	0	0	0	0	0	0.001	1986
1987	0	0	0.003	0.003	0	0	0	0	0	0	0	0	0	1987
1988	0	0	0	0.003	0.001	0	0.001	0	0	0	0	0	0	1988
MEAN	0	0	0.002	0.005	0.001	0	0	0	0	0	0	0	0	MEAN

LOCATION - LAT 50 15 00 N
LONG 95 52 54 W
DRAINAGE AREA, .43 km^2
NATURAL FLOW
DATA CONTRIBUTED BY - ATOMIC ENERGY OF CANADA

WILD GOOSE CREEK NEAR DEAD CREEK NORTH OF PINAWA - STATION NO. 05PF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1986	0.055 ON MAR 31 *	0.050 ON MAR 31 *	0 ON JAN 1 *	38.4	1986
1987	---	0.0188 ON APR 8	0 ON JAN 1	15.0	1987
1988	---	0.018 ON APR 5	0 ON JAN 1	12.8	1988
				22.1	MEAN

B - ICE CONDITIONS
* - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1966	---	---	0.883	1.61	0.824	0.094	B.048	B	C	B	---	---	0.488	1966
1967	---	---	C	3.08	0.433	0.021	B.004	C	C	B	---	---	0.435	1967
1968	---	---	0.703	0.136	0.023	0.007	B.006	B.021	0.171	B.045	---	---	0.140	1968
1969	---	---	C	12.1	1.06	0.213	2.02	0.178	0.014	0.018	---	---	1.92	1969
1970	---	---	0.008	13.6	3.28	0.462	0.107	B.028	0.015	0.028	---	---	2.16	1970
1971	---	---	C	1.71	0.726	2.86	2.19	0.100	---	---	---	---	---	1971
1972	---	---	1.27	8.27	0.886	0.290	0.178	B.031	B.001	B.001	---	---	0.955	1972
1973	---	---	0.042	0.023	0.035	0.028	0.082	B.039	B.068	0.111	---	---	0.053	1973
1974	---	---	C	12.1	3.12	0.486	0.007	B	B	C	---	---	2.06	1974
1975	---	---	C	4.76	1.35	0.550	0.024	B.105	0.221	0.118	---	---	0.878	1975
1976	---	---	0.010	14.1	0.424	0.248	0.057	B	C	C	---	---	1.82	1976
1977	---	---	0.004	0.004	0.019	0.008	0.041	0.001	0.021	0.073	---	---	0.021	1977
1978	---	---	0.320	2.88	0.554	0.233	0.007	B	C	C	---	---	0.484	1978
1979	---	---	C	8.08	2.17	0.421	0.006	C	C	C	---	---	1.32	1979
1980	---	---	C	B.054	0.001	B	C	0.400	B.043	0.011	---	---	0.064	1980
1981	---	---	0.264	0.027	0.018	B.008	0.001	C	B	C	---	---	0.040	1981
1982	---	---	0.148	2.85	0.105	0.077	0.280	0.057	B.001	0.070	---	---	0.443	1982
1983	---	---	0.006	8.04	0.322	0.181	0.137	0.011	B	C	---	---	1.06	1983
1984	---	---	0.053	0.018	0.105	B.218	0.008	C	B	C	---	---	0.050	1984
1985	---	---	2.00	1.77	0.015	0.001	C	B.247	0.185	0.080	---	---	0.531	1985
1986	---	---	2.81	2.15	2.08	0.080	0.080	B.013	C	C	---	---	0.919	1986
1987	---	---	0.087	8.28	0.181	0.038	0.002	B	C	C	---	---	0.807	1987
1988	---	---	C	0.001	0.002	C	0.000	B	C	C	---	---	0.001	1988
MEAN	---	---	0.378	4.43	0.767	0.288	0.276	0.053	0.032	0.024	---	---	0.758	MEAN

LOCATION - LAT 49 51 32 N DRAINAGE AREA, 889 km²
LONG 99 49 34 W NATURAL FLOW

WILLOW CREEK NEAR CHATER - STATION NO. 05MH011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1966	---	9.20 E ON APR 1	C B ON MAR 1 *	8 810	1966
1967	---	11.8 B ON APR 15	C B ON MAR 1	9 220	1967
1968	---	3.82 B ON MAR 27	C B ON MAR 1	2 850	1968
1969	---	77.9 ON APR 13	C B ON MAR 1	40 700	1969
1970	---	58.3 ON APR 25	0.006E ON AUG 28	45 700	1970
1971	---	27.8 ON JUL 13	C B ON MAR 1	---	1971
1972	---	26.7 B ON APR 10	C B ON MAR 1	20 200	1972
1973	---	0.294 ON SEP 5	C B ON MAR 1	1 110	1973
1974	---	80.4 ON APR 15 *	C B ON MAR 1	43 500	1974
1975	---	32.0 ON APR 29	C B ON MAR 1	18 600	1975
1976	---	56.9 B ON APR 7	C ON AUG 3	38 800	1976
1977	---	0.343 ON JUL 14	C B ON MAR 1	454	1977
1978	---	15.0 B ON APR 6	C B ON MAR 1	10 400	1978
1979	---	71.4 B ON APR 21	C B ON MAR 1	27 500	1979
1980	4.04 AT 04:41 CST ON AUG 22	3.85 ON AUG 22	C B ON MAR 1	1 350	1980
1981	---	0.8188 ON MAR 17	C ON JUL 18	443	1981
1982	---	18.2 B ON APR 15	C B ON MAR 1	9 380	1982
1983	43.9 B AT 09:24 CST ON APR 9	35.6 B ON APR 10	C B ON MAR 1	22 500	1983
1984	9.64 AT 09:04 CST ON JUN 16	4.25 ON JUN 16	C B ON MAR 1	1 050	1984
1985	13.6 B AT 12:30 CST ON MAR 25	12.2 B ON MAR 25	C B ON MAR 1	11 200	1985
1986	25.1 B AT 04:28 CST ON MAR 29	21.5 B ON MAR 29	C ON JUL 8	19 400	1986
1987	50.8 AT 08:00 CST ON APR 6 *	46.3 ON APR 6	C B ON MAR 1	17 100	1987
1988	0.085 AT 17:30 CST ON JUL 9	0.074 ON JUL 10	C B ON MAR 1	30.8	1988
				15 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO JUN IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1980	---	---	0	2.69	0.798	0.144	0.001	0.034	0.006	0	---	---	0.900	1980
1981	---	---	0.084	0.781	0.116	0.009	0	0	0	0	---	---	0.240	1981
1982	---	---	0	0.513	0.236	0.239	0.017	1.81	0.081	0.028	---	---	0.245	1982
1983	---	---	0.422	5.31	1.14	3.77	---	---	---	---	---	---	2.82	1983
1984	---	---	0	0.343	---	---	---	---	---	---	---	---	---	1984
1985	---	---	0.078	0.880	1.56	0.030	0.016	0	0	0	---	---	0.885	1985
1987	---	---	0	3.80	1.36	0.013	0.001	0.001	0	0	---	---	1.24	1987
1988	---	---	0.081	0.148	0.076	0.041	0.038	0.233	0.063	0.088	---	---	0.086	1988
1989	---	---	0	3.31	1.22	0.387	0.028	0.021	0.003	0.003	---	---	1.22	1989
1970	---	---	0	1.87	0.805	0.172	0.017	0	0	0	---	---	0.859	1970
1971	---	---	0	0.898	0.209	0.024	0.116	0	0	0.004	---	---	0.294	1971
1972	---	---	0	1.45	0.089	0.005	0	0	0	0	---	---	0.380	1972
1973	---	---	0.100	0.010	0.003	0.401	---	---	---	---	---	---	0.127	1973
1974	---	---	0	11.2	8.47	0.778	---	---	---	---	---	---	5.10	1974
1975	---	---	0	0.816	0.153	0.050	---	---	---	---	---	---	0.252	1975
1976	---	---	0	7.00	0.726	0.089	---	---	---	---	---	---	1.83	1976
1977	---	---	0	0.041	0.028	0.079	---	---	---	---	---	---	0.037	1977
1978	---	---	0	6.83	1.03	0.228	---	---	---	---	---	---	2.00	1978
1979	---	---	0	3.86	6.03	1.46	---	---	---	---	---	---	2.64	1979
1980	---	---	0	0.431	0	0	---	---	---	---	---	---	0.106	1980
1981	---	---	0.080	0.174	0.006	0.0E5	---	---	---	---	---	---	0.066	1981
1982	---	---	0.078	3.37	0.436	0.286	---	---	---	---	---	---	1.03	1982
1983	---	---	0.051	3.04	0.234	0.489	---	---	---	---	---	---	0.843	1983
1984	---	---	0.051	0.205	0.016	0.051	---	---	---	---	---	---	0.080	1984
1985	---	---	0.306	0.749	0.052	5.007	---	---	---	---	---	---	0.278	1985
1986	---	---	0.474	3.16	2.22	0.018	---	---	---	---	---	---	1.47	1986
1987	---	---	0	0.831	0.010	0	---	---	---	---	---	---	0.156	1987
1988	---	---	0	0.715	0.008	0.0E6	---	---	---	---	---	---	0.179	1988
MEAN	---	---	0.084	2.28	1.01	0.326	0.024	0.190	0.018	0.012	---	---	0.932	MEAN

LOCATION - LAT 50 36 50 N DRAINAGE AREA, 153 km²
LONG 97 02 40 W NATURAL FLOW

REMARKS - PUBLISHED AS "OSIER CREEK" PRIOR TO 1978. AN EQUATION TO GENERATE ANNUAL FLOW VOLUME IS AVAILABLE

WILLOW CREEK NEAR GIMLI - STATION NO. 05SB002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO JUN FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1980	---	6.40 B ON APR 16	0B ON MAR 1 *	8 480	1980
1981	---	1.72 ON APR 21	0B ON MAR 1	2 540	1981
1982	---	2.72 ON APR 24	0B ON MAR 1	3 590	1982
1983	---	12.3 B ON APR 8	0B ON MAR 1	27 E0E	1983
1984	---	---	0B ON MAR 1	---	1984
1985	---	4.73 ON MAY 4	0B ON MAR 1	7 010	1985
1987	---	11.7 ON APR 30	0B ON MAR 1	13 10E	1987
1988	---	1.84 E ON MAR 30	0B ON MAR 1	910	1988
1989	---	10.7 ON APR 14	0B ON MAR 1	12 E0E	1989
1970	---	9.21 ON APR 16	0B ON MAR 1	6 E56	1970
1971	---	3.17 B ON APR 11	0B ON MAR 1	3 100	1971
1972	---	6.61 ON APR 16	0B ON MAR 1	4 000	1972
1973	---	2.02 ON JUN 21	0B ON MAR 1	1 340	1973
1974	---	37.7 ON APR 20 *	0B ON MAR 1	53 000	1974
1975	---	3.11 ON APR 21	0B ON MAR 1	2 880	1975
1976	---	12.2 ON APR 17	0B ON MAR 1	20 400	1976
1977	---	0.884 ON JUN 18	0B ON MAR 1	388	1977
1978	---	15.3 ON APR 14	0B ON MAR 1	21 000	1978
1979	---	11.2 ON APR 28	0B ON MAR 1	30 000	1979
1980	---	1.82 B ON APR 8	0B ON MAR 1	1 120	1980
1981	0.420 AT 14:31 CST ON APR 10	0.408 ON APR 10	0B ON MAR 1	588	1981
1982	8.82 AT 00:40 CST ON APR 15	8.82 B ON APR 15	0B ON MAR 1	10 800	1982
1983	8.86 AT 14:34 CST ON APR 8	8.76 B ON APR 8	0B ON MAR 1	9 940	1983
1984	0.766 AT 18:30 CST ON MAR 30	0.0310 ON MAR 30	0B ON MAR 1	839	1984
1985	3.16 B AT 23:38 CST ON MAR 31	2.86 B ON APR 1	0B ON MAR 1	2 940	1985
1988	8.83 B AT 20:34 CST ON APR 1 *	8.50 B ON APR 1	0B ON MAR 1	15 500	1988
1987	---	3.81 B ON APR 6	0B ON MAR 1	1 870	1987
1988	---	4.61 B ON APR 3	0B ON MAR 1	1 880	1988
				8 830	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
E - ESTIMATED

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1959	---	---	---	---	0.411	0.076	0.006	0	0.061	---	---	---	---	1959
1960	---	---	---	---	0.877	0.126	0.057	0.081	0.015	---	---	---	---	1960
1961	---	---	---	---	0.368	0.011	0.002	0.001	0.008	---	---	---	---	1961
1962	---	---	---	---	0.323	0.248	0.021	0.083	0.029	---	---	---	---	1962
1963	---	---	---	---	---	0.599	0.358	0.086	0.076	---	---	---	---	1963
1964	---	---	---	---	0.527	0.057	0.019	0.008	0.007	---	---	---	---	1964
1965	---	---	---	0.291	0.887	0.275	0.045	0.024	0.488	0.038	---	---	---	1965
1966	---	---	0.037	0.291	0.598	0.102	0.042	0.209	0.020	0.036	---	---	---	1966
1967	---	---	---	0.431	0.842	0.153	0.023	0.011	0.002	0.044	---	---	---	1967
1968	---	---	---	0.278	0.277	0.148	0.201	0.140	0.112	0.059	---	---	---	1968
1969	0.003	0.006	0.057	0.518	0.200	0.891	0.480	0.078	0.083	0.101	0.031	0.010	0.205	1969
1970	0.008	0.006	0.006	0.084	1.88	0.888	0.143	0.021	0.047	0.063	0.095	0.015	0.237	1970
1971	0.020	0.021	0.021	0.499	0.153	1.04	0.243	0.065	0.063	0.348	0.088	0.022	0.211	1971
1972	0.008	0.004	0.006	0.424	0.364	0.098	0.024	0.020	0.017	0.011	0.006	0.006	0.082	1972
1973	0.004	0.003	0.030	0.135	0.170	0.259	0.085	0.085	0.200	0.233	0.084	0.047	0.112	1973
1974	0.044	0.040	0.037	0.613	0.807	0.213	0.070	0.041	0.043	0.042	0.017	0.014	0.165	1974
1975	0.023	0.018	0.020	0.276	0.542	0.331	0.031	0.285	1.56	0.527	0.087	0.021	0.310	1975
1976	0.010	0.013	0.018	0.868	0.262	0.211	0.048	0.018	0.015	0.011	0.007	0.004	0.122	1976
1977	0.005	0.007	0.008	0.045	0.102	0.040	0.469	0.041	0.418	0.110	0.027	0.023	0.108	1977
1978	0.024	0.010	0.013	0.448	0.255	0.064	0.009	0.006	0.092	0.040	0.045	0.028	0.086	1978
1979	0.051	0.052	0.054	0.279	1.30	0.363	0.058	0.033	0.031	0.008	0.009	0.012	0.188	1979
1980	0.008	0.006	0.004	0.185	0.049	0.024	0.058	0.427	0.047	0.081	0.077	0.018	0.082	1980
1981	0.005	0.005	0.025	0.038	0.130	0.191	0.020	0.007	0.013	0.048	---	---	---	1981
1982	---	---	---	0.674	0.242	0.152	0.082	0.016	0.032	0.336	0.113	---	---	1982
1983	---	---	---	---	0.501	0.202	0.338	0.031	0.014	0.022	---	---	---	1983
MEAN	0.015	0.015	0.024	0.365	0.484	0.253	0.115	0.070	0.140	0.113	0.051	0.018	0.158	MEAN

LOCATION - LAT 50 43 46 N DRAINAGE AREA, 22.8 km²
LONG 99 33 15 W NATURAL FLOW

DATA CONTRIBUTED BY - MANITOBA WATER RESOURCES BRANCH

WILSON CREEK NEAR MCCREARY - STATION NO. 05LJ801

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1959	---	---	0 ON JUL 13 *	---	1959
1960	---	2.29 R ON MAY 26	0.012R ON SEP 12	---	1960
1961	---	1.12 R ON MAY 5	0 R ON JUL 2	---	1961
1962	---	3.31 R ON MAY 30	0 R ON JUN 14	---	1962
1963	---	4.56 ON JUN 10	---	---	1963
1964	---	2.09 ON MAY 10	---	---	1964
1965	---	3.96 R ON APR 29	0 ON APR 1	---	1965
1966	---	---	---	---	1966
1967	---	1.61 R ON MAY 15	0 ON SEP 16	---	1967
1968	---	1.25 ON JUL 1	0.024R ON OCT 14	---	1968
1969	---	8.36 R ON JUN 27	0.003B ON JAN 1	6 440	1969
1970	---	5.90 R ON MAY 8	0.006RB ON JAN 25	7 480	1970
1971	---	9.51 R ON JUN 5	0.013 ON SEP 28	6 670	1971
1972	---	2.83 R ON APR 26	0.001R ON JUN 30	2 600	1972
1973	---	1.23 R ON JUN 20	0.003RB ON JAN 11	3 540	1973
1974	---	4.11 R ON MAY 11	0.006RB ON NOV 5	5 220	1974
1975	---	16.4 ON SEP 18 *	0 R ON JUL 26	9 760	1975
1976	---	2.75 R ON APR 14	0.003RB ON MAR 21	3 870	1976
1977	---	7.74 R ON JUL 11	0.001R ON AUG 24	3 410	1977
1978	---	1.92 ON APR 27	0 ON JUL 10	2 710	1978
1979	10.6 AT 00:30 CST ON MAY 17 *	8.18 ON MAY 17	0.003 ON SEP 8	5 980	1979
1980	---	3.00 R ON AUG 21	0 ON SEP 13	2 580	1980
1981	---	0.898 ON JUN 15	0.002 ON AUG 16	---	1981
1982	---	---	---	---	1982
1983	---	---	---	---	1983
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD R - REVISED SINCE JAN 01 1986		5 020	MEAN

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1979	---	---	0	22.8	12.5	1.85	0.038	0.001	0	0	---	---	4.58	1979
1980	---	---	0.017	4.85	0.088	0.002	0	0.152	0.131	0.113	---	---	0.858	1980
1981	---	---	0.550	0.770	0.787	1.43	0.104	0.001	0.001	0.003	---	---	0.483	1981
1982	---	---	0.078	5.15	0.518	0.076	0.008	0.232	0.004	0.317	---	---	0.787	1982
1983	---	---	0	18.5	4.82	0.941	0.327	0.010	0.001	0.001	---	---	3.15	1983
1984	---	---	0.218	0.546	0.814	0.184	0.018	0.001	0.001	0.010	---	---	0.225	1984
1985	---	---	0.003	15.2	0.733	0.758	0.068	1.10	0.788	2.48	---	---	2.81	1985
1986	---	---	4.78	10.2	13.4	0.235	0.074	0.068	0.005	0.003	---	---	3.80	1986
1987	---	---	0.874	8.36	0.113	0.012	0.001	0	0	0.001	---	---	0.906	1987
1988	---	---	0.038	4.91	7.14	0.080	0.007	0.001	0	0.001	---	---	1.52	1988
MEAN	---	---	0.857	9.03	4.09	0.519	0.064	0.158	0.084	0.283	---	---	1.85	MEAN

LOCATION - LAT 51 08 30 N DRAINAGE AREA, 869 km²
LONG 100 20 00 W NATURAL FLOW

WILSON RIVER NEAR ASHVILLE - STATION NO. 05LJ045

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1979	187 AT 03:53 CST ON APR 22 *	183 ON APR 22 *	[illegible] B ON MAR 1 *	86 500	1979
1980	---	13.0 B ON APR 7	0 B ON MAR 1	13 900	1980
1981	8.26 AT 04:00 CST ON MAY 30	7.32 ON MAY 30	0 ON AUG 11	9 580	1981
1982	---	16.9 ON APR 16	0 B ON MAR 1	16 700	1982
1983	182 AT 08:21 CST ON APR 24	154 ON APR 24	0 B ON MAR 1	86 700	1983
1984	2.48 AT 15:32 CST ON APR 3	1.838 ON APR 4	0 B ON MAR 1	4 780	1984
1985	29.8 B AT 15:01 CST ON APR 8	27.5 B ON APR 16	0 B ON MAR 1	55 100	1985
1986	105 A AT 16:30 CST ON MAY 6	79.6 A ON MAY 6	0.001 ON SEP 20	76 100	1986
1987	56.8 AT 18:34 CST ON APR 5	39.3 ON APR 6	0 ON JUL 17	19 200	1987
1988	85.0 AT 14:00 CST ON MAY 3	43.8 ON MAY 3	0 B ON MAR 1	32 200	1988
				39 100	MEAN

A - MANUAL GAUGE (SEE REFERENCE INDEX) B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1948	---	---	B	17.3	20.7	0.856	[illegible].12	0.878	0.112	B.012	---	---	5.25	1948
1949	---	---	0.085	5.88	0.988	2.37	0.515	0.115	0.003	0.013	---	---	1.20	1949
1950	---	---	0	5.73	4.88	4.42	5.18	0.384	0.018	0.276	---	---	2.73	1950
1951	---	---	0	8.10	5.22	0.588	0.204	0.029	0.883	0.383	---	---	1.94	1951
1952	---	---	0.005	12.2	0.888	0.184	0.015	0	0.541	0.089	---	---	1.71	1952
1953	---	---	---	11.0	9.78	24.1	4.30	0.507	0.367	2.83	1.05	---	---	1953
1954	---	---	B	10.1	7.40	13.1	8.82	0.138	0.895	1.88	0.344	---	5.38	1954
1955	---	---	0	14.7	10.8	6.87	0.721	0.837	0	0.025	---	---	4.10	1955
1956	---	---	0	10.4	18.0	5.32	4.98	0.323	0.161	0.124	---	---	5.15	1956
1957	---	---	0.289	21.6	4.73	0.785	0.126	0.013	0.002	0.026	---	---	3.40	1957
1958	---	---	0.300	1.92	0.188	0.056	0.037	0	0	0	---	---	0.305	1958
1959	---	---	0.365	1.35	0.710	1.83	0.946	0.005	0	0.027	---	---	0.525	1959
1960	---	---	0	16.3	7.96	2.17	0.089	0.005	0	0	---	---	3.28	1960
1961	---	---	0	0.001	0.052	0	0	0	0	0	---	---	0.007	1961
1962	---	---	0	4.28	0.749	0.347	0	0	0	0	---	---	0.882	1962
1963	---	---	1.18	3.47	0.551	2.84	0.598	0.035	0	0	---	---	1.08	1963
1964	---	---	0	7.03	3.28	0.083	0.116	0.004	0	0	---	---	1.30	1964
1965	---	---	0	8.84	3.56	2.05	0.411	0.068	3.27	0.586	---	---	2.32	1965
1966	---	---	0.330	19.0	8.57	1.14	0.808	0.344	0.004	0.002	---	---	3.75	1966
1967	---	---	0.003	16.4	11.3	[illegible].834	0.048	0.006	0.002	0	---	---	3.51	1967
1968	---	---	1.28	2.57	0.177	0.039	0.008	0.013	0.005	0	---	---	0.506	1968
1969	---	---	0	10.0	0.464	2.28	4.06	0.183	0.003	0.004	---	---	2.11	1969
1970	---	---	0.013	15.5	16.4	2.13	2.62	0.598	0.084	0.328	---	---	5.07	1970
1971	---	---	0.040	14.3	1.52	7.30	0.824	0.172	0.003	0.284	---	---	3.01	1971
1972	---	---	2.61	15.0	2.75	0.208	0.031	0.004	0	0.002	---	---	2.54	1972
1973	---	---	0.086	0.285	0.132	0.510	0.048	0.020	0.713	2.26	---	---	0.505	1973
1974	---	---	0.079	32.9	28.3	1.43	0.126	0.005	0.007	0.014	---	---	7.82	1974
1975	---	---	0.010	16.4	5.89	3.70	0.125	0.305	8.75	2.88	---	---	4.88	1975
1976	---	---	0.001	25.2	1.83	11.6	0.707	0.022	0.005	0.001	---	---	4.84	1976
1977	---	---	0.002	0.380	0.188	0.030	0.910	0.148	1.19	0.843	---	---	0.436	1977
1978	---	---	0.070	11.0	2.30	0.392	0.025	0.003	0.002	0.030	---	---	1.70	1978
1980	---	---	B.030	5.44	0.196	0.082	B.128	0.139	0.187	0.073	---	---	0.891	1980
1981	---	---	0.576	1.04	0.817	1.91	0.148	0.004	0	0	---	---	0.570	1981
1982	---	---	B.057	8.08	0.756	0.138	B.053	0.320	0.058	0.319	---	---	0.959	1982
MEAN	---	---	0.224	10.4	5.46	3.01	1.23	0.142	0.483	0.374	0.897	---	2.53	MEAN

LOCATION - LAT 51 12 30 N, LONG 100 10 45 W DRAINAGE AREA, 925 km^2, NATURAL FLOW

WILSON RIVER NEAR DAUPHIN - STATION NO. 05LJ011

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1948	---	70.8 ON APR 25	0 B ON MAR 1 *	111 000	1948
1949	---	12.8 ON APR 12	0 E ON SEP 28	25 400	1949
1950	---	27.8 B ON APR 18	0 B ON MAR 1	57 800	1950
1951	---	35.4 ON APR 30	0 B ON MAR 1	41 100	1951
1952	---	43.9 B ON APR 8	0 B ON MAR 1	36 200	1952
1953	---	64.8 ON JUN 5	---	---	1953
1954	---	54.9 ON JUL 2	B ON MAR 1	114 000	1954
1955	---	41.6 ON MAY 6	0 B ON MAR 1	86 800	1955
1956	---	58.0 ON APR 25	0 B ON MAR 1	109 000	1956
1957	---	98.5 ON APR 26	0 B ON MAR 1	72 000	1957
1958	---	7.53 B ON APR 1	0 B ON MAR 1	6 470	1958
1959	---	8.75 ON JUN 18	0 B ON MAR 1	13 200	1959
1960	---	44.5 B ON APR 13	0 B ON MAR 1	88 500	1960
1961	---	0.227 ON MAY 17	0 B ON MAR 1	142	1961
1962	---	18.4 ON APR 20	0 B ON MAR 1	14 000	1962
1963	---	10.7 ON APR 8	0 B ON MAR 1	23 000	1963
1964	---	18.6 ON APR 13	0 B ON MAR 1	27 500	1964
1965	---	27.8 ON APR 14	0 B ON MAR 1	49 000	1965
1966	---	56.1 ON APR 3	0 B ON MAR 1	78 300	1966
1967	---	83.5 ON APR 28	0 E ON AUG 17	74 400	1967
1968	---	7.85 B ON MAR 29	0 B ON MAR 1	10 700	1968
1969	---	51.3 ON APR 14	0 B ON MAR 1	44 500	1969
1970	---	72.8 B ON APR 26	0.0099 ON MAR 1	107 000	1970
1971	---	81.4 B ON APR 11	0.001 ON AUG 29	63 700	1971
1972	---	28.8 ON APR 18	0 ON AUG 31	53 800	1972
1973	---	7.85 ON OCT 6	0 B ON MAR 1	10 700	1973
1974	---	174 ON APR 20 *	0 ON AUG 20	165 000	1974
1975	105 AT 23:15 CST ON SEP 20 *	61.3 ON SEP 20	0.002 ON AUG 3	89 100	1975
1976	---	76.3 ON JUN 14	0 B ON MAR 1	102 000	1976
1977	---	8.41 ON SEP 27	0 B ON MAR 1	9 230	1977
1978	---	32.0 B ON APR 11	0 ON AUG 11	26 000	1978
1980	---	28.8 B ON APR 7	B ON JUN 9	16 800	1980
1981	8.92 AT 03:37 CST ON MAY 31	8.94 ON MAY 31	B ON AUG 9	12 100	1981
1982	---	17.1 A ON APR 19	0 B ON MAR 1	20 300	1982
	A - MANUAL GAUGE (SEE REFERENCE INDEX)	B - ICE CONDITIONS E - ESTIMATED	* - EXTREME RECORDED FOR THE PERIOD OF RECORD	53 400	MEAN

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1965	---	---	0	6.86	2.79	1.03	0.384	0.106	2.73	0.839	---	---	1.82	1965
1966	---	---	0.264	13.1	6.34	0.686	0.597	0.292	0.001	0	---	---	2.88	1966
1967	---	---	0	12.0	8.80	0.193	0.008	0	0	0	---	---	2.81	1967
1968	---	---	1.46	1.85	0.108	0.016	0.064	0.108	0.001	0	---	---	0.462	1968
1969	---	---	E	7.38	0.212	2.41	3.03	0.018	0.006	0.087	---	---	1.82	1969
1970	---	---	0.003	16.4	17.6	1.51	1.87	0.163	0.103	0.410	---	---	4.74	1970
1971	---	---	0.018	11.5	0.894	4.85	0.757	0.110	0.001	0.298	---	---	2.88	1971
1972	---	---	1.80	12.0	2.10	0.048	0	0	0	0	---	---	1.95	1972
1973	---	---	0.173	0.259	0.127	0.364	0.014	0.010	0.838	1.25	---	---	0.343	1973
1974	---	---	0.071	20.4	22.3	0.810	0.026	0.002	0.004	0.005	---	---	5.44	1974
1975	---	---	0	13.0	3.86	3.14	0.042	0.151	9.47	1.36	---	---	3.82	1975
1976	---	---	0.126	20.8	1.33	7.42	0.468	0.002	0	0	---	---	3.87	1976
1977	---	---	0	0.376	0.193	0.038	0.805	0.054	1.20	0.447	---	---	0.400	1977
1978	---	---	0.053	8.62	1.38	0.099	0.007	0	0.004	0.052	---	---	1.28	1978
MEAN	---	---	0.271	10.3	4.86	1.62	5.581	0.073	1.00	0.338	---	---	2.36	MEAN

LOCATION - LAT 51 07 35 N LONG 100 28 30 W DRAINAGE AREA, 648 km^2 NATURAL FLOW

WILSON RIVER NEAR GILBERT PLAINS - STATION NO. 05LJ035

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1965	---	23.3 ON APR 15	0E ON MAR 1 *	38 500	1965
1966	---	33.1 B ON APR 2	0 ON SEP 8	55 800	1966
1967	---	47.6 ON APR 27	0B ON MAR 1	55 200	1967
1968	---	10.2 B ON MAR 29	0B ON MAR 1	9 780	1968
1969	---	49.8 B ON APR 13	0B ON MAR 1	34 300	1969
1970	---	110 ON MAY 4	0B ON MAR 1	100 000	1970
1971	---	47.0 B ON APR 10	0 ON SEP 24	48 200	1971
1972	---	31.1 ON APR 21	0 ON JUN 25	41 200	1972
1973	---	6.51 ON OCT 4	0B ON MAR 1	7 270	1973
1974	---	135 ON MAY 23 *	0 ON AUG 4	115 000	1974
1975	136 AT 14:56 CST ON SEP 19 *	89.6 ON SEP 19	0B ON MAR 1	80 900	1975
1976	---	59.5 ON APR 10	0 ON AUG 21	77 700	1976
1977	---	7.67 ON SEP 27	0B ON MAR 1	8 480	1977
1978	---	18.2 B ON APR 10	0 ON JUL 28	28 700	1978
	B - ICE CONDITIONS	* - EXTREME RECORDED FOR THE PERIOD OF RECORD		48 900	MEAN

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF004

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1956	---	---	---	---	---	1 530	1 090	828	678	875	---	---	---	1956
1957	---	---	---	---	---	743	1 130	884	642	652	724	---	---	1957
1958	---	---	---	---	815	504	628	487	457	588	804	844	---	1958
1959	884	833	785	727	787	1 140	1 280	1 040	828	1 040	1 050	996	931	1959
1960	1 040	972	818	995	996	803	711	676	693	659	868	785	828	1960
1961	782	738	733	640	715	578	536	528	537	---	---	---	---	1961
1962	---	---	---	---	---	1 806	1 340	1 870	1 710	1 230	---	---	---	1962
1963	---	---	---	---	---	1 108	1 190	---	---	---	---	---	---	1963
MEAN	839	848	812	787	778	1 000	986	884	782	804	762	808	878	MEAN

LOCATION - LAT 50 22 00 N DRAINAGE AREA, 126 000 km²
LONG 95 20 20 W REGULATED

WINNIPEG RIVER ABOVE LAMPREY FALLS - STATION NO. 05PF004

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1956	---	1 610 ON JUN 18	637E ON SEP 15	---	1956
1957	---	1 330 ON JUL 28	552 ON SEP 16	---	1957
1958	---	---	371 ON SEP 7 *	---	1958
1959	1 390 AT 04:00 CST ON JUL 18 *	1 390 ON JUL 17	634E ON JAN 8	28 400 000	1959
1960	---	1 180 ON JAN 23	578 ON NOV 4	26 100 000	1960
1961	869 AT 11:00 CST ON JAN 7	864 ON JAN 7	---	---	1961
1962	---	2 140E ON SEP 2 *	---	---	1962
1963	---	1 440 ON JUL 8	---	---	1963
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		27 800 000	MEAN

E - ESTIMATED

WINNIPEG RIVER AT MCARTHUR GENERATING STATION - STATION NO. 05PF008

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	853	878	878	797	488	335	286	233	213	352	380	545	518	1987
1988	588	574	479	357	281	214	206	182	281	880	843	874	458	1988
MEAN	710	727	879	577	385	275	251	208	247	506	617	710	488	MEAN

LOCATION - LAT 50 23 53 N DATA CONTRIBUTED BY -
LONG 95 59 50 W REGULATED SINCE 1954 MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM GENERATION AND SPILL TABLES

WINNIPEG RIVER AT MCARTHUR GENERATING STATION - STATION NO. 05PF008

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1987	---	2 490 ON OCT 1 *	138 ON SEP 5	15 300 000	1987
1988	---	988 ON DEC 20	137 ON AUG 9 *	14 500 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 400 000	MEAN

WINNIPEG RIVER AT PINE FALLS GENERATING STATION - STATION NO. 05PF009

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1987	867	866	873	822	485	354	319	291	233	307	422	568	527	1987
1988	589	594	501	381	283	235	234	186	298	868	840	878	474	1988
MEAN	718	730	887	602	384	295	272	225	268	488	631	723	501	MEAN

LOCATION - LAT 50 36 03 N DATA CONTRIBUTED BY -
LONG 96 10 39 W REGULATED SINCE 1951 MANITOBA HYDRO

REMARKS - FLOW CALCULATED FROM PLANT GENERATION AND FROM SPILL TABLES

WINNIPEG RIVER AT PINE FALLS GENERATING STATION - STATION NO. 05PF009

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1987	---	957 ON APR 12	138 ON SEP 20 *	16 600 000	1987
1988	---	1 010 ON DEC 21 *	137 ON JUL 10	15 000 000	1988
		* - EXTREME RECORDED FOR THE PERIOD OF RECORD		15 800 000	MEAN

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PF063

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1907	765	648	491	413	462	793	907	887	1 040	1 200	1 210	1 120	828	1907
1908	1 040	1 040	889	807	922	1 180	1 220	1 120	1 020	935	804	860	988	1908
1909	701	684	533	473	575	696	699	895	831	576	579	638	623	1909
1910	715	887	674	1 130	1 500	1 380	1 050	700	656	481	405	367	803	1910
1911	423	374	345	340	420	521	648	738	701	735	648	548	538	1911
1912	566	480	380	381	645	789	747	787	840	861	957	840	700	1912
1913	784	736	629	494	808	952	842	781	709	507	434	408	686	1913
1914	383	371	387	407	520	912	1 030	912	738	697	691	552	627	1914
1915	515	492	448	508	795	921	1 020	989	876	589	801	622	883	1915
1916	663	715	758	741	1 260	1 680	1 890	1 800	1 480	1 270	972	825	1 180	1916
1917	878	1 100	907	907	718	891	437	512	553	546	559	544	685	1917
1918	524	488	498	541	559	655	628	590	548	549	553	593	581	1918
1919	570	512	558	818	712	840	1 060	1 200	991	844	719	680	789	1919
1920	501	527	575	705	982	1 170	1 050	775	625	567	456	433	697	1920
1921	416	394	378	642	1 040	943	820	743	671	708	681	617	673	1921
1922	558	519	475	555	1 180	1 240	894	824	767	623	536	481	728	1922
1923	433	399	469	822	848	787	687	688	674	672	622	575	648	1923
1924	533	514	485	695	649	685	685	680	625	527	477	442	545	1924
1925	418	332	312	351	487	653	788	746	682	601	541	483	533	1925
1926	454	436	424	486	848	720	876	872	718	1 000	1 330	1 020	748	1926
1927	938	918	957	1 130	2 050	2 360	2 410	2 110	1 420	941	832	703	1 400	1927
1928	694	823	860	706	727	702	1 330	1 150	851	867	1 040	908	858	1928
1929	775	781	822	833	685	606	658	678	692	516	535	551	633	1929
1930	515	441	444	482	554	583	507	442	398	382	381	425	487	1930
1931	400	384	367	383	327	331	348	346	343	382	398	411	383	1931
1932	405	395	378	450	618	585	502	397	328	374	420	433	440	1932
1933	442	444	558	1 010	1 020	883	811	531	462	415	478	563	689	1933
1934	602	596	616	686	893	1 120	1 200	1 150	898	827	726	697	838	1934
1935	589	577	522	642	778	763	842	845	807	888	803	740	735	1935
1936	689	704	782	672	926	926	884	576	506	493	500	502	684	1936
1937	515	496	460	512	827	899	983	1 220	887	842	583	618	724	1937
1938	563	549	580	598	1 580	2 080	1 780	751	585	583	583	622	903	1938
1939	600	614	539	540	546	547	582	577	501	487	517	532	546	1939
1940	517	537	484	485	457	481	458	378	342	391	453	443	452	1940
1941	437	410	415	480	586	676	521	505	590	1 780	2 120	1 580	834	1941
1942	1 180	903	770	670	683	739	574	559	780	738	664	644	737	1942
1943	591	857	713	747	1 130	1 770	2 280	1 380	787	816	807	752	1 050	1943
1944	713	724	729	690	711	1 190	1 770	1 340	1 800	832	706	815	984	1944
1945	863	839	788	1 210	1 680	1 140	804	765	696	648	735	770	813	1945
1946	732	755	784	1 060	1 330	1 110	838	770	648	645	733	763	856	1946
1947	781	876	831	965	1 080	1 440	1 860	1 030	788	678	686	720	887	1947
1948	734	745	759	806	1 450	1 020	717	734	641	598	644	644	782	1948
1949	857	869	649	656	743	820	577	541	539	632	820	828	861	1949
1950	778	772	770	766	1 880	2 710	2 650	2 520	2 040	1 0[illegible]	951	855	1 470	1950
1951	915	951	867	1 020	1 510	1 330	1 010	691	829	658	688	804	931	1951
1952	898	876	861	844	691	632	707	945	779	836	836	896	787	1952
1953	660	629	619	622	653	884	958	887	697	682	656	684	719	1953
1954	700	709	788	932	1 590	2 440	2 300	1 140	823	791	772	752	1 180	1954
1955	675	663	638	784	845	832	854	747	802	582	644	709	713	1955
1956	720	805	895	1 030	1 310	1 480	1 150	874	885	635	638	674	909	1956
1957	871	892	867	867	824	897	1 120	919	583	581	669	723	736	1957
1958	762	748	719	634	590	480	606	465	408	537	578	618	595	1958
1959	688	813	783	703	748	1 180	1 310	1 080	777	1 000	1 030	1 010	920	1959
1960	1 000	957	803	981	988	781	698	644	863	635	850	764	808	1960
1961	756	713	688	808	698	561	497	426	433	500	553	851	587	1961
1962	857	884	811	656	787	1 540	1 260	1 800	1 650	1 210	848	918	1 040	1962
1963	954	973	920	988	885	1 080	1 180	1 090	886	831	886	940	973	1963
1964	934	933	859	834	992	852	1 420	881	1 280	2 190	1 860	1 210	1 170	1964
1965	1 050	1 070	1 180	1 380	1 500	1 880	1 500	881	857	1 120	1 730	1 270	1 270	1965
1966	1 340	1 380	1 420	1 710	2 280	2 280	1 800	872	837	891	830	833	1 380	1966
1967	887	880	824	843	773	729	727	824	864	871	786	871	787	1967
1968	851	843	788	850	680	1 100	1 770	1 640	1 440	1 580	1 890	1 520	1 210	1968
1969	1 430	1 510	1 500	1 480	1 170	1 320	1 280	1 280	1 350	1 320	1 320	1 310	1 380	1969
1970	1 280	1 280	1 300	1 240	1 820	2 100	1 800	975	840	1 110	1 580	1 610	1 410	1970
1971	1 580	1 490	1 480	1 490	1 410	1 190	940	725	800	714	1 610	1 820	1 280	1971
1972	1 500	1 480	1 490	1 530	1 400	853	610	620	716	728	883	910	1 060	1972
1973	963	998	945	590	456	401	347	498	817	1 080	1 420	1 320	819	1973
1974	1 260	1 270	1 250	1 470	2 200	2 850	2 380	1 270	1 190	1 130	1 080	1 260	1 530	1974
1975	1 180	1 330	1 410	1 410	1 380	988	1 270	727	828	804	768	881	1 050	1975
1976	878	838	859	1 020	720	521	405	382	351	372	403	404	820	1976
1977	474	562	558	272	148	122	194	217	444	1 180	1 340	1 420	576	1977
1978	1 340	1 230	1 280	1 300	977	1 080	1 350	998	1 250	1 040	941	990	1 180	1978
1979	996	957	878	888	1 620	1 800	890	577	649	771	782	848	983	1979
1980	905	961	1 040	1 030	735	369	258	269	308	405	538	735	629	1980
1981	818	846	818	368	264	283	507	317	407	574	638	623	520	1981
1982	686	787	660	606	765	1 090	1 000	818	771	905	1 070	1 330	884	1982
1983	1 300	1 130	1 060	956	573	508	810	532	451	620	838	921	780	1983
1984	941	938	862	716	568	835	868	818	542	595	785	816	786	1984
1985	936	936	931	764	1 250	1 930	2 200	1 540	1 440	1 500	1 770	1 340	1 390	1985
1986	1 300	1 270	1 310	1 220	1 620	1 380	739	894	628	788	818	886	1 050	1986
1987	898	910	885	735	453	328	290	232	228	297	405	566	517	1987
1988	585	594	488	364	251	212	193	183	285	693	875	908	488	1988
MEAN	778	775	755	787	838	1 010	1 010	830	753	778	818	803	836	MEAN

LOCATION - LAT 50 13 30 N
LONG 95 34 15 W

DRAINAGE AREA, 126 000 km²
REGULATED SINCE 1907

DATA CONTRIBUTED BY -
CITY OF WINNIPEG HYDRO-ELECTRIC SYSTEM

WINNIPEG RIVER AT SLAVE FALLS - STATION NO. 05PP003

ANNUAL EXTREMES OF DISCHARGE AND ANNUAL TOTAL DISCHARGE FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1907	---	1 250 ON OCT 22	408 ON APR 5	28 200 000	1907
1908	---	1 250 ON JUN 27	814 ON DEC 27	30 700 000	1908
1909	---	807 ON JAN 13	456 ON APR 17	19 700 000	1909
1910	---	1 510 ON MAY 7	381 ON DEC 24	25 300 000	1910
1911	---	787 ON OCT 12	306 ON MAR 27	17 000 000	1911
1912	---	1 030 ON OCT 31	337 ON MAR 26	22 100 000	1912
1913	---	885 ON JUN 13	368 ON DEC 27	21 000 000	1913
1914	---	1 080 ON JUL 18	331 ON FEB 22	19 800 000	1914
1915	---	1 080 ON JUL 18	411 ON APR 4	21 800 000	1915
1916	---	1 970 ON JUL 24	592 ON JAN 1	37 300 000	1916
1917	---	1 180 ON FEB 13	402 ON JUL 22	21 600 000	1917
1918	---	888 ON JUN 20	486 ON MAR 3	19 700 000	1918
1919	---	1 290 ON JUL 28	442 ON MAR 9	24 300 000	1919
1920	---	1 200 ON JUN 7	405 E ON NOV 28	22 100 000	1920
1921	---	1 100 ON MAY 25	378 E ON MAR 1	21 200 000	1921
1922	---	1 420 ON MAY 25	447 ON APR 2	23 000 000	1922
1923	---	1 010 ON MAY 9	386 E ON FEB 5	20 400 000	1923
1924	---	725 ON JUN 5	419 ON DEC 19	17 200 000	1924
1925	---	813 ON JUL 4	275 ON APR 5	16 800 000	1925
1926	---	1 440 ON NOV 4	357 ON MAR 21	23 800 000	1926
1927	---	2 450 ON JUL 19	823 ON DEC 31	44 200 000	1927
1928	---	1 450 ON JUL 23	527 ON FEB 5	27 100 000	1928
1929	---	900 ON MAR 25	416 ON SEP 15	20 000 000	1929
1930	---	885 ON MAY 26	294 ON NOV 2	14 400 000	1930
1931	---	447 ON DEC 3	274 ON JUN 28	11 900 000	1931
1932	---	888 ON MAY 10	286 ON SEP 25	13 900 000	1932
1933	---	1 250 ON APR 23	382 ON OCT 6	18 900 000	1933
1934	---	1 230 ON JUL 15	581 ON JAN 1	26 400 000	1934
1935	---	1 020 ON JUL 28	430 ON MAR 10	23 200 000	1935
1936	---	1 090 ON MAY 25	433 ON OCT 18	21 000 000	1936
1937	---	1 270 ON AUG 7	416 ON MAR 28	22 600 000	1937
1938	---	2 280 ON MAY 30	486 ON APR 3	26 600 000	1938
1939	---	848 ON FEB 20	422 ON OCT 15	17 200 000	1939
1940	---	858 ON FEB 11	317 ON SEP 7	14 300 000	1940
1941	---	2 190 ON NOV 6	345 ON MAR 29	26 300 000	1941
1942	---	1 250 ON JAN 2	507 ON AUG 25	23 300 000	1942
1943	---	2 390 ON JUL 18	530 ON JAN 9	33 000 000	1943
1944	---	1 920 ON JUL 17	620 ON OCT 29	31 400 000	1944
1945	---	1 790 ON MAY 8	578 ON OCT 27	28 800 000	1945
1946	---	1 380 ON MAY 17	566 ON SEP 7	27 000 000	1946
1947	---	2 040 ON JUL 2	597 ON OCT 11	31 100 000	1947
1948	---	1 720 ON MAY 18	552 ON OCT 13	25 000 000	1948
1949	---	900 ON NOV 20	487 ON SEP 3	20 900 000	1948
1950	---	2 780 ON JUN 18	711 ON APR 13	46 300 000	1950
1951	---	1 720 ON MAY 22	575 ON SEP 15	29 400 000	1951
1952	---	1 000 ON AUG 17	524 ON JUN 28	24 300 000	1952
1953	---	1 030 ON JUN 12	580 ON MAR 8	22 700 000	1953
1954	---	2 800 ON JUN 30 *	660 ON JAN 8	36 100 000	1954
1955	---	1 050 ON JUN 4	538 ON SEP 10	22 500 000	1955
1956	---	1 590 ON JUN 16	589 ON SEP 20	28 800 000	1956
1957	---	1 370 ON JUL 29	462 ON SEP 15	23 300 000	1957
1958	---	810 ON FEB 27	281 ON SEP 6	18 800 000	1958
1959	---	1 420 ON JUL 17	609 ON JAN 6	29 000 000	1959
1960	---	1 140 ON APR 28	544 ON NOV 6	25 500 000	1960
1961	---	827 ON JAN 6	323 ON AUG 28	18 500 000	1961
1962	---	2 110 ON SEP 2	569 ON MAR 13	32 700 000	1962
1963	---	1 460 ON JUL 6	716 ON SEP 29	30 700 000	1963
1964	---	2 520 ON OCT 18	657 ON JUN 14	37 000 000	1964
1965	---	1 680 ON NOV 6	762 ON SEP 7	40 100 000	1965
1966	---	2 410 ON MAY 23	769 ON AUG 24	43 900 000	1966
1967	---	943 ON JAN 2	552 ON OCT 6	24 800 000	1967
1968	---	1 890 ON AUG 1	524 ON MAY 31	38 400 000	1968
1969	---	1 750 ON JUL 2	800 ON MAY 28	42 700 000	1968
1970	---	2 190 ON JUN 17	786 ON AUG 20	44 800 000	1970
1971	---	2 000 ON DEC 10	498 ON SEP 21	38 400 000	1971
1972	---	1 670 ON MAY 4	507 ON JUL 28	33 400 000	1972
1973	---	1 480 ON NOV 13	280 ON JUL 3	25 800 000	1973
1974	---	2 750 ON JUL 1	871 ON NOV 12	48 300 000	1974
1975	---	1 810 ON JUL 14	547 ON OCT 28	33 100 000	1975
1976	---	1 989 ON APR 16	286 ON DEC 19	19 900 000	1976
1977	---	1 508 ON DEC 13	81.0 ON JUN 12 *	18 200 000	1977
1978	---	1 878 ON JUL 17	852 ON MAY 23	36 100 000	1978
1979	---	1 790 ON MAY 28	486 ON AUG 13	30 400 000	1979
1980	---	1 968 ON MAR 12	81.0 ON SEP 2	18 900 000	1980
1981	---	815 ON JAN 16	149 ON JUN 8	18 400 000	1981
1982	---	1 430 ON DEC 30	515 ON JAN 2	27 900 000	1982
1983	---	1 420 ON JAN 23	317 ON OCT 2	24 900 000	1983
1984	---	987 ON DEC 31	444 ON SEP 1	24 200 000	1984
1985	---	2 430 ON JUL 18	886 ON APR 22	43 800 000	1985
1986	---	1 870 ON MAY 25	572 ON SEP 7	33 200 000	1986
1987	---	9548 ON JAN 7	180 ON SEP 8	18 300 000	1987
1988	---	867 ON DEC 18	126 ON JUN 8	14 800 000	1988
				28 400 000	MEAN

B - ICE CONDITIONS E - ESTIMATED * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WINNIPEG RIVER BELOW FOURTH FALLS , SEVEN SISTERS - STATION NO. 05PF015

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1917	---	---	---	---	---	322	203	253	278	282	270	---	---	1917
1918	---	244	248	272	288	375	340	306	276	274	263	281	---	1918
1919	292	232	284	467	417	354	702	833	554	---	---	---	---	1919
MEAN	292	238	265	380	352	350	415	464	403	278	267	281	---	MEAN

LOCATION - LAT 50 07 15 N
LONG 95 00 40 W REGULATED

WINNIPEG RIVER, HEAD OF GRAND DU BONNET FALLS - STATION NO. 05PF044

MONTHLY AND ANNUAL MEAN DISCHARGES IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1911	---	---	---	---	---	---	---	---	---	750	641	548	---	1911
1912	529	426	---	---	---	---	---	---	---	---	---	---	---	1912
MEAN	529	426	---	---	---	---	---	---	---	750	641	548	---	MEAN

LOCATION - LAT 50 38 30 N
LONG 95 58 30 W REGULATED

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR APR TO NOV IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1915	---	---	---	---	---	0.872	3.11	0.959	0.220	0.425	0.283	---	---	1915
1916	---	---	---	5.10	8.63	23.9	7.11	1.29	0.584	1.80	1.27	---	5.18	1916
1917	---	---	---	1.59	21.6	8.03	9.89	1.03	0.657	0.200	---	---	---	1917
1918	---	---	---	3.71	3.44	11.5	12.1	2.45	0.586	0.594	0.930	---	4.42	1918
1919	---	---	---	5.15	3.86	1.06	2.16	0.705	2.26	---	---	---	---	1919
MEAN	---	---	---	4.14	9.33	9.10	6.83	1.29	0.665	0.755	0.831	---	5.31	MEAN

LOCATION - LAT 52 13 00 N DRAINAGE AREA, 1 880 km²
LONG 101 13 00 W NATURAL FLOW

WOODY RIVER AT BOWSMAN - STATION NO. 05LE002

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR APR TO NOV FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m^3/s)	MAXIMUM DAILY DISCHARGE (m^3/s)	MINIMUM DAILY DISCHARGE (m^3/s)	TOTAL DISCHARGE (dam^3)	YEAR
1915	---	---	---	---	1915
1916	---	38.5 ON JUN 11	0.227 ON SEP 8 *	130 000	1916
1917	---	43.3 ON MAY 9 *	---	---	1917
1918	---	31.4 ON JUL 2	0.227 ON SEP 26	83 200	1918
1919	---	11.68 ON APR 8	---	---	1919
				112 000	MEAN

B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

MONTHLY MEAN DISCHARGES AND MEAN DISCHARGES FOR MAR TO OCT IN CUBIC METRES PER SECOND FOR THE PERIOD OF RECORD

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN	YEAR
1954	---	---	---	10.7	28.9	51.4	14.1	4.96	10.9	4.43	---	---	---	1954
1955	---	---	---	23.0	26.5	4.47	1.96	0.181	0.044	0.174	---	---	---	1955
1956	---	---	---	9.20	31.3	12.9	8.84	1.62	0.568	0.846	---	---	---	1956
1957	---	---	0.243	15.6	17.2	4.69	1.03	0.422	1.07	1.08	---	---	5.17	1957
1958	---	---	0.059	2.90	2.30	1.43	0.38	1.07	0.266	0.502	---	---	2.30	1958
1959	---	---	0.742	2.82	5.46	5.11	5.89	0.220	2.52	1.92	---	---	3.08	1959
1960	---	---	0.120	14.3	14.5	11.0	2.89	1.20	0.152	0.023	---	---	5.45	1960
1961	---	---	0	0.677	1.43	0.088	0.088	0	0.023	0.024	---	---	0.385	1961
1962	---	---	0	3.13	5.76	0.887	0.117	0.017	0.732	1.62	---	---	1.66	1962
1963	---	---	0.197	6.19	5.13	5.66	0.672	0.261	0.188	0.065	---	---	2.58	1963
1964	---	---	0	2.90	9.70	1.32	0.956	2.03	6.21	4.06	---	---	3.40	1964
1965	---	---	0.325	10.9	15.4	28.0	5.60	2.04	3.40	4.38	---	---	8.45	1965
1966	---	---	0.625	16.1	15.0	16.3	16.6	5.43	4.17	1.86	---	---	9.52	1966
1967	---	---	0.573	2.40	39.7	14.0	1.82	1.03	0.330	0.264	---	---	7.56	1967
1968	---	---	0.763	3.47	2.08	4.80	3.84	10.6	3.87	0.822	---	---	3.74	1968
1969	---	---	0.762	14.6	6.24	3.08	3.66	1.55	0.491	6.94	---	---	4.62	1969
1970	---	---	0.340	10.5	24.5	10.4	10.5	2.20	0.315	2.45	---	---	7.86	1970
1971	---	---	0.813	26.2	10.1	7.83	1.52	0.592	0.084	2.83	---	---	8.40	1971
1972	---	---	0.561	27.2	36.3	4.48	3.81	0.918	0.250	0.467	---	---	8.47	1972
1973	---	---	2.20	4.00	5.17	19.0	7.06	1.25	0.820	1.17	---	---	5.05	1973
1974	---	---	0.586	23.7	40.1	11.3	1.83	1.27	2.81	2.83	---	---	10.5	1974
1975	---	---	0.415	14.1	17.8	15.0	5.30	2.31	4.47	5.80	---	---	8.12	1975
1976	---	---	0.486	15.0	2.87	13.8	7.43	0.484	0.188	0.095	---	---	5.04	1976
1977	---	---	0.183	5.07	3.23	1.84	1.74	4.61	8.32	8.34	---	---	4.00	1977
1978	---	---	0.506	13.8	8.42	2.84	2.81	0.905	2.10	3.50	---	---	4.46	1978
1979	---	---	0.388	20.1	32.6	22.7	2.07	0.142	0.050	0.510	---	---	8.75	1979
1980	---	---	0.022	8.02	1.75	0.390	2.63	8.17	8.19	5.28	---	---	4.04	1980
1981	---	---	0.906	9.20	8.04	1.82	3.85	4.88	0.435	8.20	---	---	4.86	1981
1982	---	---	0.202	4.80	8.85	8.09	18.1	4.99	1.12	4.50	---	---	6.11	1982
1983	---	---	0.452	24.9	27.2	13.2	23.7	4.02	4.75	4.20	---	---	12.8	1983
1984	---	---	7.95	36.5	39.8	23.2	3.15	0.769	0.567	2.83	---	---	14.3	1984
1985	---	---	0.726	28.9	12.1	5.98	2.88	5.44	3.37	4.98	---	---	8.01	1985
1986	---	---	3.11	32.8	19.2	8.33	4.05	0.914	0.470	1.53	---	---	8.74	1986
1987	---	---	0.484	31.4	4.98	4.25	8.50	3.33	1.70	8.20	---	---	7.41	1987
1988	---	---	1.05	52.2	59.7	2.55	0.130	0.039	0.003	0.085	---	---	14.4	1988
MEAN	---	---	0.798	15.2	16.9	9.75	5.37	2.24	2.16	2.61	---	---	6.52	MEAN

LOCATION - LAT 53 15 30 N DRAINAGE AREA, 2 110 km²
LONG 101 08 15 W NATURAL FLOW

WOODY RIVER NEAR BOWSMAN - STATION NO. 05LE004

EXTREMES OF DISCHARGE AND TOTAL DISCHARGE FOR MAR TO OCT FOR THE PERIOD OF RECORD

YEAR	MAXIMUM INSTANTANEOUS DISCHARGE (m³/s)	MAXIMUM DAILY DISCHARGE (m³/s)	MINIMUM DAILY DISCHARGE (m³/s)	TOTAL DISCHARGE (dam³)	YEAR
1954	---	117 ON JUN 18	---	---	1954
1955	---	56.4 B ON APR 5	---	---	1955
1956	---	53.0 ON MAY 6	---	---	1956
1957	---	41.3 ON APR 25	0.198 ON AUG 13	110 000	1957
1958	---	24.0 ON JUL 7	0.0578 ON MAR 1	48 700	1958
1959	---	14.0 ON JUL 1	0 B ON MAR 1 *	85 200	1959
1960	87.4 ON APR 15	58.0 ON APR 15	0.008 ON OCT 28	116 000	1960
1961	---	1.87 ON MAY 15	0 B ON MAR 1	7 740	1961
1962	---	19.8 B ON APR 20	0 B ON MAR 1	32 800	1962
1963	---	32.6 B ON APR 8	0 B ON MAR 1	53 800	1963
1964	---	17.0 ON MAY 15	0 B ON MAR 1	71 900	1964
1965	---	58.5 ON JUN 5	0.113 ON SEP 15	179 000	1965
1966	---	46.7 B ON APR 7	0.2828 ON MAR 1	201 000	1966
1967	---	74.8 B ON MAY 7	0 ON JUL 28	159 000	1967
1968	---	20.1 ON AUG 1	0.0408 ON MAR 1	79 200	1968
1969	---	51.5 B ON APR 13	0 ON AUG 28	85 700	1969
1970	---	45.3 ON MAY 24	0.042 ON SEP 18	162 000	1970
1971	---	87.7 ON APR 17	0 ON AUG 16	136 000	1971
1972	---	153 ON APR 22	0 ON SEP 23	201 000	1972
1973	45.6 AT 18:02 CST ON JUN 6	43.6 ON JUN 6	0 B ON MAR 1	107 000	1973
1974	---	140 B ON APR 21	0.493 ON AUG 11	221 000	1974
1975	86.5 AT 20:20 CST ON APR 22	61.2 ON APR 22	0.2618 ON APR 5	172 000	1975
1976	70.5 AT 06:00 CST ON APR 10	63.4 ON APR 10	0 ON SEP 30	107 000	1976
1977	14.4 AT 14:11 CST ON SEP 26	14.2 ON SEP 26	0 B ON MAR 1	64 600	1977
1978	58.5 AT 00:36 CST ON APR 18	50.4 ON APR 19	0.1908 ON MAR 12	94 400	1978
1979	126 AT 10:55 CST ON APR 25	113 ON APR 25	0 ON AUG 29	206 000	1979
1980	---	31.5 B ON APR 14	0 B ON MAR 1	65 400	1980
1981	15.5 AT 23:55 CST ON MAY 2	16.3 ON MAY 3	0 ON SEP 5	88 700	1981
1982	74.8 AT 02:59 CST ON JUL 19	67.1 ON JUL 19	0 B ON MAR 1	130 000	1982
1983	---	170 B ON APR 25	0.4358 ON MAR 1	271 000	1983
1984	76.0 AT 02:34 CST ON MAY 22	75.2 ON MAY 21	0 ON AUG 30	303 000	1984
1985	---	52.8 B ON APR 14	0.3188 ON MAR 9	170 000	1985
1986	89.4 AT 19:45 CST ON APR 5	47.1 ON APR 11	0.020 ON SEP 25	165 000	1986
1987	136 AT 18:50 CST ON APR 7	123 ON APR 7	0.1048 ON MAR 13	157 000	1987
1988	335 AT 19:00 CST ON MAY 3 *	376 A ON MAY 4 *	0 ON JUL 31	305 000	1988
				136 000	MEAN

A - MANUAL GAUGE B - ICE CONDITIONS * - EXTREME RECORDED FOR THE PERIOD OF RECORD
(SEE REFERENCE INDEX)

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